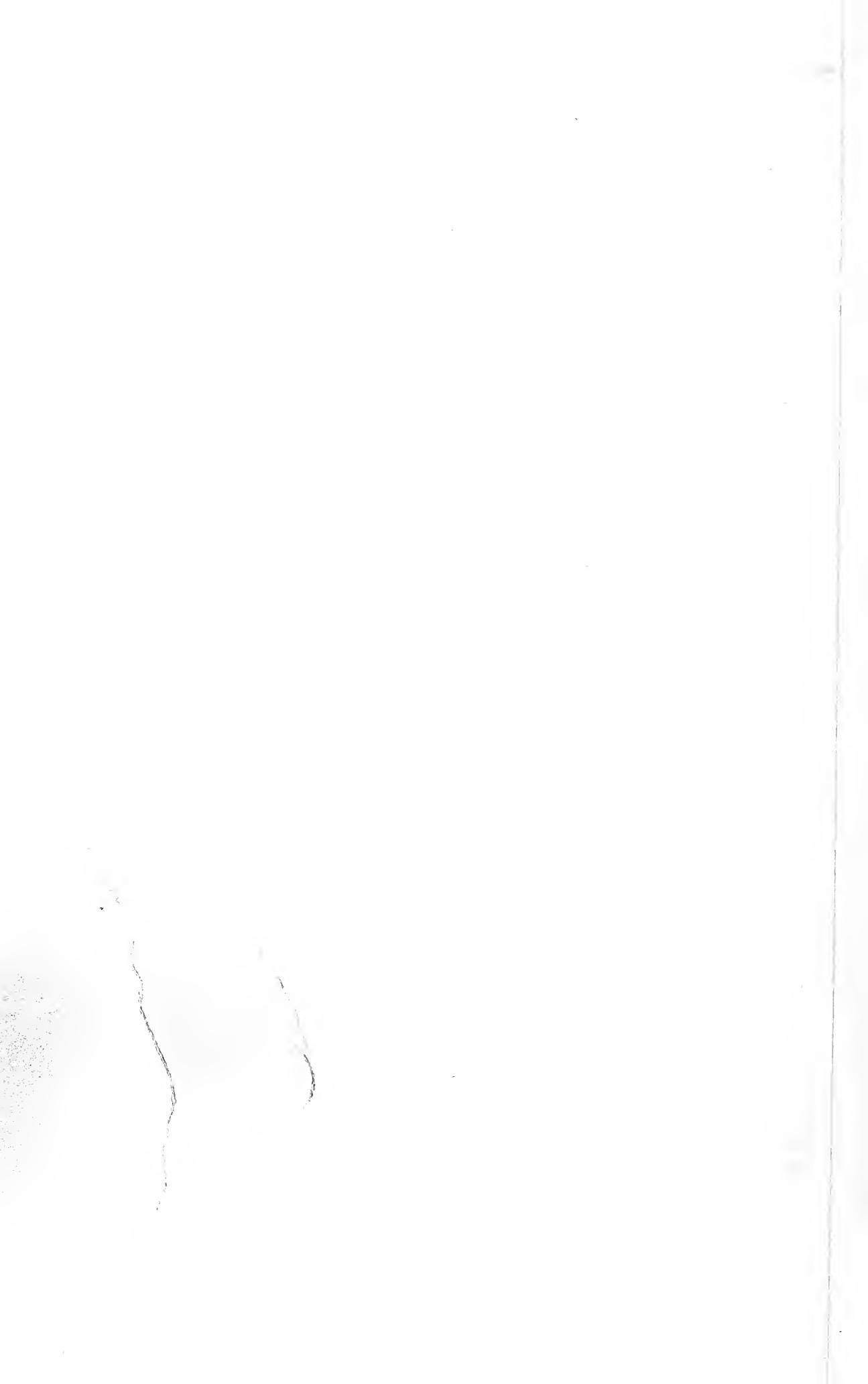


## **Historic, Archive Document**

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THIRTY - FOURTH  
ANNUAL CATALOGUE

U. S. DEPARTMENT OF AGRICULTURE  
OCT 10 1919  
U. S. Department of Agriculture

# **NORTHRUP, KING & CO'S**

**STERLING SEEDS**

**1918**

Office and Warehouse  
Fifteenth Ave. N.E. and Jackson St.  
Retail Store  
Hennepin Ave. at First Street

**MINNEAPOLIS, MINNESOTA**

Northrup, King & Co., Seedsmen, Minneapolis, Minn.

## Northrup, King & Co.'s Seven Brands.

These seven brands illustrated herewith are trade-marks which have been adopted for the protection of our customers. They are not merely names and symbols but represent real standards of quality. You can rely on all these brands when you purchase seeds and poultry feed, as the reputation of Northrup, King & Co. is behind each one of them.

They are only used to brand seeds which have been carefully tested in our laboratory.

To avoid sowing doubtful quality seed on your land and to receive real value for your money, it is always good judgment to purchase seeds of these brands.

"REG. U. S. PAT. OFF."

This set of abbreviated words indicates that the trade-mark in connection with which it is used, has been "Registered in the United States Patent Office," at Washington. Northland, Viking, Lincoln Oats, Giant Fodder and Elephant Fodder have all been registered in this way.

It is contrary to law for any firm or individual to use one of these trade-marks without our permission. Don't be imposed upon. You can procure any of the above brands either from us direct or from dealers selling our seed, providing that our stock is not sold out.

### Sterling Brand.

Our Sterling Bag Trade-Mark is used to brand those varieties of vegetable and flower seeds which we can especially recommend to our customers. A variety so marked will be found the best of its kind in every instance. We use this method to designate our specialties.

It is also used on grass and field seeds including Clover, Alfalfa, Timothy, Millets, Red Top, Blue Grass, Seed Grains, etc.

Sterling Brand Seeds are for those who want the best. Unexcelled for purity, germination, plumpness and color. Sold only in sealed bags. Look for the Sterling Trade-Mark.

Northrup, King & Co.'s Sterling Brand Seeds have proved by careful test superior in purity, germination, productiveness and hardiness. They comply in every respect with the pure seed laws of all states. See page 96 for further information about this brand.

### Northland Brand.

This is applied to many varieties of grass and field seeds, especially Clover, Timothy, Millets, Alfalfa, Blue Grass, Red Top and some Seed Grains. The name seems especially appropriate when one realizes that a large part of this seed is raised here, in the North, where plant life attains its greatest hardiness and vigor.

Northland Brand Seeds are the greatest value for a reasonable price, of uniformly superior quality, carefully selected for high purity and strong germination. The Northland Goose is on every bag.

### Viking Brand.

This is also a field and grass seed trade-mark and will be quoted in all our price lists and catalogues. See page 96 for the application of Viking to grass seed.

Viking Brand Seeds are lowest in price, consistent with dependable quality. Strictly recleaned and tested for purity and germination. Every bag branded with the Viking Ship.

### Lincoln Oats.

This name has been used since 1893 and the tremendous demand for these oats which has developed since then, proves the great popularity of this brand. See page 78 for complete information in regard to Lincoln Brand Oats.

### Giant Fodder Corn.

This name has been a standard one for years among experienced dairymen who appreciate the heavy tonnage of fodder which this variety produces.

Giant Fodder is recommended as the leading Southern Fodder variety. It excels all others in yield per acre. The slender stalks and abundance of leaves make this Corn an enormous yielder of valuable forage. The full description will be found on page 90.

### Elephant Fodder Corn.

This brand has become famous as the King of Medium Dent Fodder Corns. It grows tall, is exceedingly leafy, and forms good sized ears freely, even in the North. For feeding value it is unsurpassed. Full description and prices on page 91.

### Sterling Brand Poultry Feeds.

Sterling Brand Feeds represent the same superior quality as Sterling Brand Seeds and are for those who want the best. Sterling Poultry Feeds are unexcelled for purity, feeding value and careful preparation. They are economical to use because they contain only good, clean materials mixed in the proper proportions to make balanced rations for your birds at every age. See page 110.





## BETTER SEEDS AND BETTER CROPS

We have built a large new plant on an eight acre tract of ground in Minneapolis. Three buildings connected by subway, provide eight acres of floor space for office, warehouses, cleaning plant, and poultry feed mills. This group of buildings adds greatly to our facilities for selecting, purifying, testing, and distributing high grade seeds of the hundreds of different varieties we handle. Better still, it makes it possible for us to supply greater quantities of reliable seeds and poultry feeds to users throughout the Northwest.

Better seed means better crops. It takes reliable seed to prevent loss and to get the most from nature's help.

So we are striving to help farmers and gardeners get better results from their land and from the work they put on it.

Northrup, King & Co.'s seeds are bred for hardiness, productiveness, and quality. They are scientifically cleaned and tested for purity and germination. You cannot obtain better seeds for sowing under Northwestern climatic and soil conditions than those sold under our three reliable brands. (See page 96.)

To make it easy for users to obtain these reliable seeds we have placed them on sale in nearly twenty thousand dealers' stores in the Northwest. These dealers can supply any item listed in this catalogue, but if there is no dealer near you who handles our seeds, we ask you to write directly to us so that we may assist you promptly in filling your needs.

### Sterling Seeds For 1918

**Garden and Flower Seeds.** Unless otherwise noted, all Garden and Flower Seeds are sent prepaid by us except pound lots or more of Peas, Beans and Sweet Corn. The last three items will be sent by parcel post if postage is added at parcel post rates named below. On Peas, Beans and Corn in larger quantities than quarter pounds mailed to Canada, add 12¢ per pound to cover postage.

**The Sterling Seed Case.** Packets of garden and flower seeds most in use can be conveniently selected from the Sterling Seed cases displayed in stores in nearly every community of the Northwest. This case is illustrated on page 3. For larger quantities of seed or for varieties not found in the case, have your dealer order from us for you, or write to us if he will not supply.

**Grass and Field Seeds.** All Grass and Field Seeds, Onion Sets and Potatoes are shipped only at purchaser's expense by express or freight, as ordered. Prices quoted in this catalogue are F. O. B. Minneapolis. Small quantities of Grass or Field Seeds sent by parcel post if postage is added at parcel post rates.

**Parcel Post Rates.** All seeds, plants and roots now come under the rates named below, providing the package weighs over eight ounces. On eight ounces or less the rate is one cent for each two ounces regardless of distance; on seeds over eight ounces the pound rates apply. All goods except seeds, bulbs, roots and plants take pound rates on packages weighing over four ounces. On four ounces or less, rate is one cent per ounce, regardless of distance. Poultry supplies, fertilizers, garden tools, etc. have weight named so that postage may be readily estimated. No goods will be sent postpaid unless full postage is allowed. Insecticides and other poisons cannot be mailed.

**Express or Freight.** At prices quoted we deliver seeds to any Express or Railroad Depot in Minneapolis. On everything quoted by the  $\frac{1}{4}$  bu., bu., or 100 lbs., purchaser in every instance is to pay the transportation charges.

**Important.** When sending money to cover cost of postage allow for weight of box or packing material. For example, allow for two pounds' postage on one pound of Beans or other seed as the package when ready for mailing will weigh over one pound.

This map shows the location of our new plant and how to reach it from any railroad station. Our friends are invited to visit our main office and seed warehouses when they come to Minneapolis.

**Disclaimer.** As seeds, plants and bulbs are subject to climatic and other conditions over which we have no control, after once being placed in the ground, therefore, Northrup, King & Co., give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, plants or bulbs they send out and they will not be in any way responsible for the crop, and every order for articles named in this catalogue will be executed on these conditions only. If the purchaser does not accept same on these terms they are at once to be returned.

**Study This Catalogue Carefully.** You will find in this catalogue valuable information on the hundreds of varieties of garden, flower, and field plants whose seed we can supply. The uses and culture are carefully described. Special soil and climatic conditions are considered.

**Help Win The War.** It is your duty to plant every foot of ground you possibly can this year that you may help increase the food supply. Select varieties best adapted to your conditions. Study best methods of cultivation. Use our reliable seed.

**Buy Your Seeds Early.** Never before has there been such a scarcity of seeds of all kinds. We urge everyone to secure his supply early. Late buyers may be disappointed.

### Parcel Post Rates.

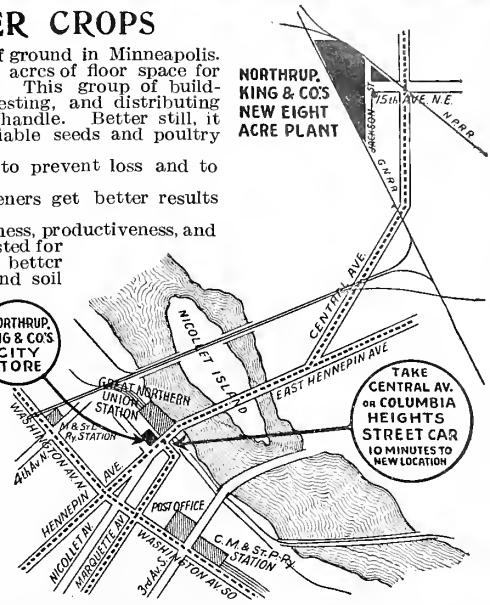
Local	1	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-29	30-31	32-33	34-35	36-37	38-39	40-41	42-43	44-45	46-47	48-49	50
Zone 1 and 2	5c	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
150 Miles	Lbs.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Miles	Postage	5c	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Weight	1lb.	21bs.	31bs.	41bs.	51bs.	61bs.	71bs.	81bs.	91bs.	101bs.	111bs.	121bs.	131bs.	141bs.	151bs.	161bs.	171bs.	181bs.	191bs.	201bs.	211bs.	221bs.	231bs.	241bs.	251bs.	
Zone 3 Miles	300	6c	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	47	48	49	50
Zone 4 Miles	600	7c	11	15	19	23	27	31	35	39	43	47	51	55	59	63	67	71	75	79	83					
Zone 5 Miles	1000	8c	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	1.04	1.10	1.16	1.22					
Zone 6 Miles	1400	9c	17	25	33	41	49	57	65	73	81	89	97	1.05	1.13	1.21	1.29	1.37	1.45	1.53	1.61					
Zone 7 Miles	1800	11c	21	31	41	51	61	71	81	91	1.01	1.11	1.21	1.31	1.41	1.51	1.61	1.71	1.81	1.91	2.01					
Zone 8 Miles	Over 1800	12c	24	36	48	60	72	84	96	1.08	1.20	1.32	1.44	1.56	1.68	1.80	1.92	2.04	2.16	2.28	2.40					

For Index of this Catalogue See Page 112.

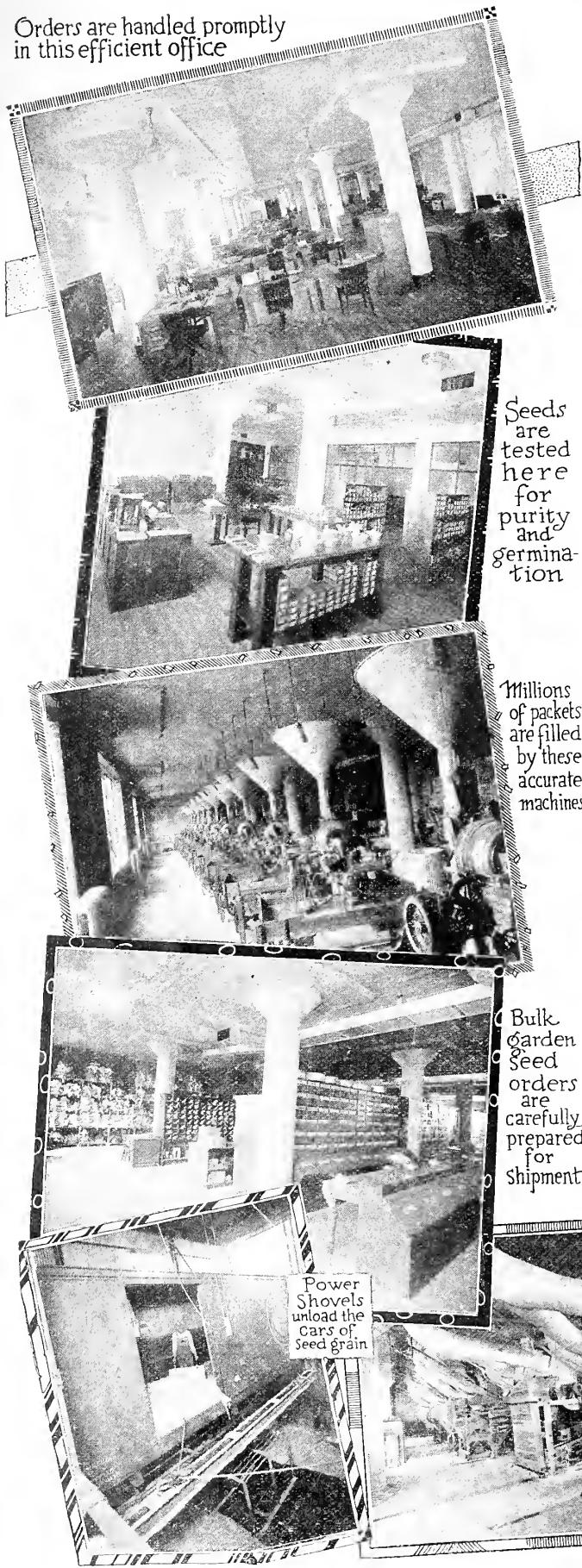
**NORTHRUP, KING & CO., SEEDSMEN,**

United States Food Administration License No. G-32453.

MINNEAPOLIS, MINNESOTA.



Orders are handled promptly  
in this efficient office



Seeds  
are  
tested  
here  
for  
purity  
and  
germina-  
tion

Millions  
of packets  
are filled  
by these  
accurate  
machines

Bulk  
Garden  
Seed  
orders  
are  
carefully  
prepared  
for  
Shipment

Power  
Shovels  
unload the  
Cars of  
Seed grain

## THIS NEW SEED PLANT HELPS GARDENERS AND FARMERS INCREASE THE FOOD SUPPLY.

A large new storehouse of seeds for farm crops and gardens of the Northwest has been erected in Minneapolis, Minnesota, by Northrup, King & Co. The main building, 420 feet long and 100 feet wide, partly four and partly six stories in height, now houses our organization and furnishes increased facilities for serving customers.

Seeds grown in countries and localities the world over are annually gathered, cleaned, packed and distributed. Storage space is provided for thousands of bags of seed during the winter months. Sixteen immense concrete tanks, seventy-five feet in height, furnish a capacity of over 100,000 bushels of seed grain. Two separate warehouses, one 302 feet long, the other 158 feet long, are devoted to storage purposes.

Our new plant occupies an eight-acre tract of ground equivalent to about four city blocks. Approximately eight acres of floor space are provided in the group of three buildings. Located on the tracks of the Great Northern and Northern Pacific Railways, the plant is immediately accessible to all main lines.

The most modern fireproof construction has been used. The main building is of reinforced concrete, steel and brick. Over 500 carloads of material, including 2,000 tons of steel for reinforcement, were used.

### Seed Testing Laboratory

But few people realize the amount of care and scientific testing involved in determining the fitness of seed to be sold under Northrup, King & Co.'s brands. With the best equipment obtainable, such as is used in Government Experiment Stations, an expert seed analyst directs weighing, measuring, sifting, counting and germinating of thousands of samples. These seeds, no matter how small, are actually counted and sprouted; and the strength and percentage of germination and purity is determined.

### Seed Packet Department

The third floor of the main warehouse contains the seed packet department. Here millions of packets, are filled from choicest stocks of the many different varieties of garden seeds. These packets are filled by delicately gauged machines, so that every packet contains exactly the same amount of seed as every other packet of the same variety. The packets are gathered into selected assortments, for different localities, and packed in attractive seed boxes which pass from bin to bin on roller runways. These boxes are then shipped to dealers throughout the Northwest, in whose stores the seed packets are placed on sale. At the end of the season the boxes are returned, and all unsold packets are torn up and destroyed.

### Cleaning Plant

One of the important services which a seed house performs is the cleaning of grass and field seed. In the six-story cleaning plant are installed several kinds of scientifically constructed seed-cleaning and purifying machines of the latest type. These are fed from enormous bins on the floor above. The clean seed descends to other hoppers on the next floor below, where it is weighed and sacked by automatic scales.

### Shipping Department

In the Spring, the busiest place in our warehouse is the shipping department, for prompt service must be rendered during the planting season. From all parts of the many storerooms and bins, systems of spiral chutes, elevators and trucks pour bag after bag of seed into the shipping room on the main floor. Here they are either loaded into cars at one side of the building or onto trucks at the opposite side and started by freight, parcel post, or express, to their destination.

### Grain Tanks

In a city which is known as the milling center of the United States, grain elevators are a common sight; but to build sixteen large concrete tanks 75 feet high, especially for the storage of seed, is one indication of the amount of business this company handles. On top of these elevators, where streams of grain are poured into the different bins, a complicated machine moves about on rails and directs the seed from the belts into the proper compartments. Any bin may be quickly emptied from the bottom and its contents moved on belt conveyors to any part of the building.

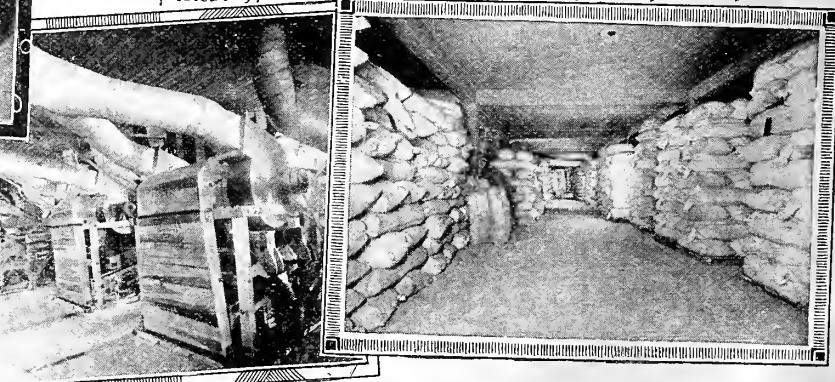
### Electric Power

All power used in the plant is electrical, and the current is received at high voltage. Transformers step the current down for use in electric motors and electric lights in every part of the plant.

With our new equipment, we are able to render unusually efficient service to the eighteen thousand or more dealers in the Northwest who distribute Northrup, King & Co.'s seeds.

Field seeds are  
purified by machinery  
of latest type

A 300 Ft. aisle in one of the storage  
rooms where bags of tested seeds are  
kept ready for shipment



# Northrup, King & Co.'s

## Sterling Seed Case

At your Dealer's.

This illustrates one of the Sterling Seed Cases each of which contains an assortment of the leading kinds of vegetable and flower seeds suitable for the rigorous climate of the North. Every packet holds a liberal quantity of fresh, tested seed.

### Dependable Quality.

You are assured of dependable quality by the name, "Northrup, King & Co." and the Sterling Trade Mark on each package. The case may be identified by the bright blue and yellow labels. Every case is returned to us at the end of the selling season and all packages are torn up. Each dealer is sent a new supply of seeds in the Spring.

### Convenience.

These cases will be found in the stores of merchants in almost every community in the thirteen states tributary to Minneapolis. The many thousands of dealers who sell our seeds make it convenient for seed buyers to purchase everything required in the seed line.

### Assortment.

The varieties of seeds offered in our up-to-date cases are very carefully selected for the different localities which our boxes reach. The assortments of both flower and vegetable seeds include generous lots of the most popular sorts and limited quantities of varieties which are not in such great demand. For example, we include many packets of the leading varieties of tomatoes, cabbages, and sweet peas, but fewer packets of pepper, pumpkin and sweet alyssum.

Selecting varieties is easy because of the illustrations in colors, true to nature, and the short, accurate descriptions. Cultural directions are printed on the back of each package.

### Any Seeds Procurable.

It is, of course, impossible to include in this case packages of every variety listed in this catalogue. Your merchant can get for you, quickly, any kind or quantity of our seeds which he may not have in stock—no matter the size of your requirements—one packet or a carload except a few varieties which may be very scarce this year.

This applies to everything offered in this book. If for any reason your merchant will not obtain our seeds for you, send your order to us and we will see that you are promptly supplied.

### Varieties For Succession.

You may have a continual supply of flowers and vegetables all through the season by selecting varieties that will be ready at different times, some early, some during midseason and others, late.

For early flowers—Bachelor Buttons, Sweet Alyssum, Sweet Peas and Poppies are popular. Midseason sorts—Nasturtiums, Marigolds, Petunias, Pinks, Snapdragons and Verbenas; late varieties—Asters, Zinnias and Cosmos make a good display for flower beds or cutting.

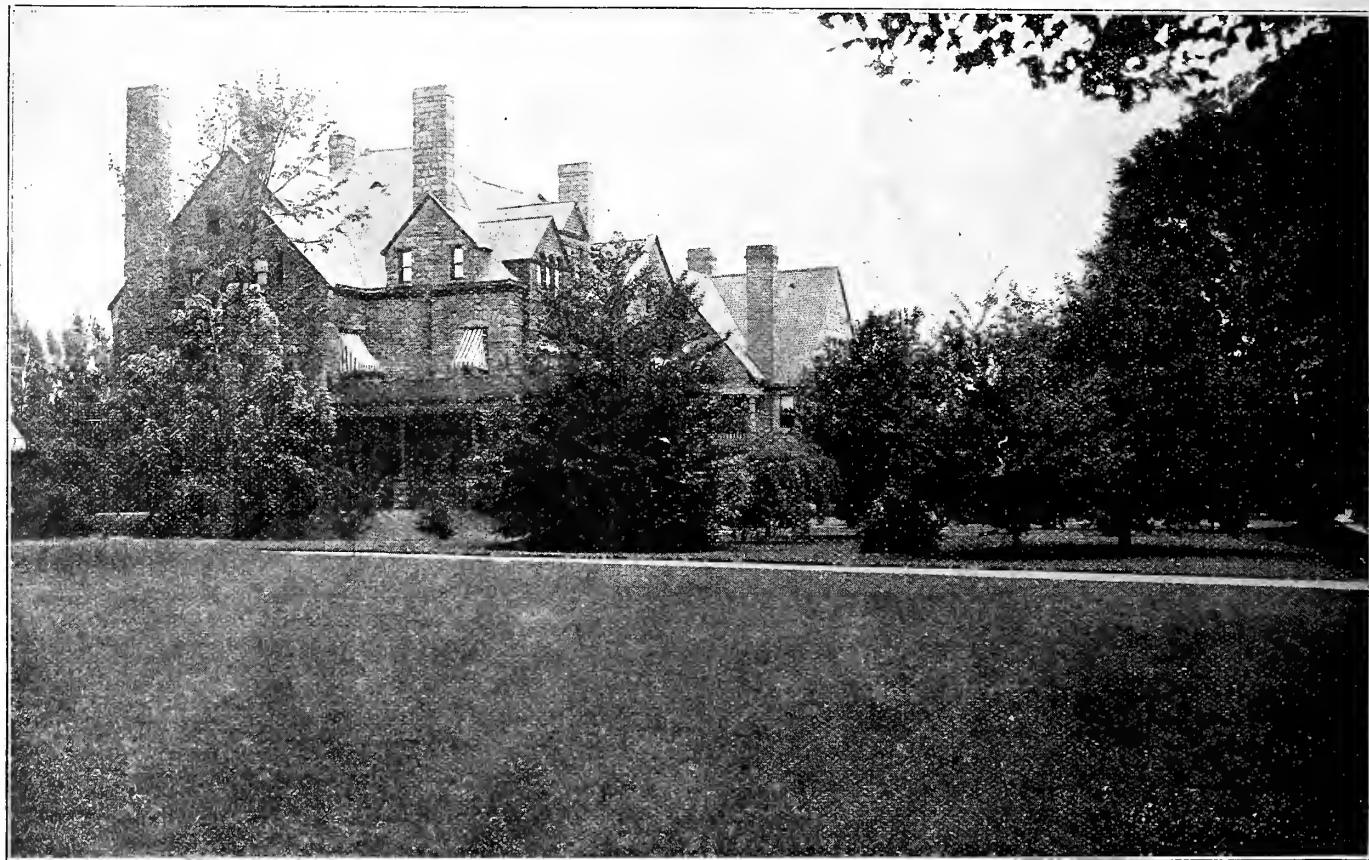
There is a way by which you can enjoy your favorite vegetables for weeks instead of for only a few days.

Use varieties which mature in succession, such as round and long Radishes, dwarf, medium, and tall Peas, etc. The Sterling Seed Case contains all these varieties.

SEEDS THAT GROW

Northrup, King & Co.'s Sterling Seed Case





A Beautiful, Smooth, Velvety, Green Lawn is Certain Through Sowing  
**Northrup, King & Co.'s "Sterling" Lawn Grass Seed**

Sold only in Sealed Bags.

ANALYZED AS TO PURITY      ::      TESTED AS TO GERMINATION



**Northrup, King & Co.'s Sterling.**

A smooth, velvety lawn surrounding a house adds not only to the value, but enhances the enjoyment of every home, whether it be in city, town or country. When properly made, a lawn is as satisfactory as any investment a home owner can make.

A lawn may be made in two ways, by sodding or by sowing seed. Sodding is not only very expensive, but unsatisfactory as well. Sods are ordinarily taken from a pasture or along the roadside and almost invariably contain weed seeds and coarse, tufty grasses which appear after the lawn is made. Seeding is not only more economical but is attended with better results.

The most important thing to consider in selecting seed for lawn grass is to obtain proper mixture of several varieties, for two reasons. First, each variety is at its best during a certain part of the season. By properly choosing early, medium and late grasses, a smooth, even, green lawn is assured from early Spring to late Autumn. Second, a given area can support only so many grass plants of one kind for they all absorb the same sort of food, but if several varieties are sown, the same area will support many more plants, as different sorts live on various elements in the soil. This will give a much thicker and more luxuriant turf all over the lawn.

With these facts in mind our Sterling Lawn Grass Seed is scientifically combined. Our experience of many years has given us an intimate knowledge of grasses, their habits and requirements. In our Sterling Lawn Seed are included the best varieties—pure, clean and free from foul seed. Our Sterling Lawn Seed is very quick in growth and is ready for mowing in from six to eight weeks from the time the seed is sown.

From early Spring until late in the Fall, lawns sown with our Sterling Lawn Seed, remain green and fresh, for the reason, that this mixture includes quick growing varieties which are at their best soon after the frost is out of the ground, others that mature and flourish in Midsummer, and still others that are greenest and sturdiest in Autumn. For each of these seasons there are several different varieties living on different elements in the soil, so that one is certain always to have a satisfactory carpet of green wherever our Sterling Lawn Seed is sown, under favorable conditions.

Strangers visiting Minneapolis, frequently comment upon the beauty of its lawns, both in the public parks and about the homes of the residents. Our Lawn Grass Seed is used very extensively, not only in our own city, but in all parts of the United States, and the demand for it is increasing every year. Our Lawn Seed is used on golf courses, tennis courts, croquet lawns, athletic fields, in parks, cemeteries and private grounds, with unvarying success. A brand of Lawn Grass Seed, such as our Sterling Mixture, which gives perfect satisfaction for these requirements is bound to insure a fine, beautiful, velvety turf around any well cared for residence.

Not only is Sterling Lawn Seed suitable for making new lawns, but it is equally valuable for quickly renewing old, worn-out areas.

Our BOOKLET ON LAWNS tells how to build new lawns, how to repair old lawns, and how to keep lawns green. We will mail one of these booklets free to any one on request. Our Sterling Lawn Seed is free

**Board of Park Commissioners**

Minneapolis, Minn.

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 THEODORE WIRTH, SUPERINTENDENT      JOSEPH ALLEN  
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MAURICE F. MCKEEAN      JEROME E. MORTON  
 WALLACE G. NIE  
 EDMUND J. PHELPS      THOMAS VOGELI

November 20, 1913.

Northrup, King & Co., Seedsmen,  
 Minneapolis, Minn.

Gentlemen:-

It is with considerable pleasure that I write you concerning the satisfactory results we obtained from the lawn grass with which you supplied us this past season. In addition to repairing many wornout and barren spots, we seeded down large areas which were entirely new last spring and summer. The seed grew quickly and formed a heavy, green sward in less than eight weeks from sowing.

Purity and germination tests of samples showed your seed to be remarkably free from foreign or foul weed seeds and the growth was quick and even. I can conscientiously state that the grass seeds supplied by you have been in every way highly satisfactory and I do not hesitate to recommend seeds of such excellent qualities to all who need them.

Yours truly,

BOARD OF PARK COMMISSIONERS

*Northrup, King & Co.*  
 Sup't.

TW-AD

from chaff, being especially recleaned, and therefore less bulky than seed not so well prepared. A pound of Sterling Lawn Seed will seed a much larger area than will a pound of the cheaper mixtures. In making a new lawn one pound of Sterling Lawn Seed will sow 350 square feet.

Price of Northrup, King & Co.'s Sterling Lawn Grass Seed. Lb., 40c; 10 lbs., \$3.50; 25 lbs., \$8.50; 50 lbs., \$16.50; 100 lbs., \$32.00; by express or freight at purchaser's expense. If wanted by parcel post add for postage at parcel post rates.



Northrup, King &amp; Co.'s Putting Green Mixture Is Composed Entirely of Dwarf Growing, Evergreen Grasses Which Make a Firm, Durable Turf.

### Northrup, King & Co.'s Terrace Mixture.

(Sold only in sealed bags.) The secret of a fine sward for terraces lies in obtaining grasses which root deeply and spread so as to make a heavy mat of sod. To keep such sod in first-class condition, the grass should not be cut too often nor too closely. Give it a chance to grow strong and tough. Let the food which the grass blades get from the air, dew and rain, work down to strengthen the roots.

This mixture is suited for sowing on terraces, embankments and hillsides, preventing heavy rains from washing them out, and withstanding drought and exposure; produces at the same time a velvety, luxuriant turf of especially fine appearance.

To keep the terrace looking well, it is important that the grass plants should always be healthy and vigorous. Sterling Garden and Lawn Fertilizers, Bone Meal and Sheep Manure are splendid for the purpose. See page 109 for complete information. Some years ago, at the time the Minneapolis Industrial Exposition Building was opened, the grounds were terraced to the street. The management was anxious to have the grounds look as well as possible, but was in a quandary as to the terrace. We supplied them with our Terrace Mixture six weeks before the Exposition opened, with the result that at the end of that time the terraces looked as though they had been established for several years.

Price. Lb. 40c; 10 lbs., \$3.50; 25 lbs., \$8.50; 50 lbs., \$16.50; 100 lbs., \$32.00; by express or freight at purchaser's expense.

### Northrup, King & Co.'s Shady Place Mixture.

(Sold only in sealed bags.) On almost every lawn there are shady places where difficulty is experienced in getting grass to grow. These bare spots are very unsightly and disfigure the lawn. In such places proper seeding may be all that is required. In this mixture we have combined fine, dwarf growing, evergreen varieties which do well in sheltered or shaded spots. Some varieties of grass require more sun than others, therefore if the kinds which need the least sun are selected, those sorts when sown in shady places will thrive and make a good appearance. Frequently a shady lawn, which is at the same time insufficiently drained, becomes affected with moss and coarse, bog grasses. In such cases an application of slack lime at the rate of forty to fifty pounds to each thousand square feet is an excellent remedy; but the moss should be first removed with a sharp rake. When this is done, sow our Shady Place Lawn Mixture, which will bring greenness to the bare



Partial View of Minikahda Golf Links, Sown with our Fair Green Mixture.

### Lawn Restoring Grass Seed.

In the Spring of the year there are, in almost every lawn, thin or bare spots which were caused by ice or exposure during the winter months. These may be very quickly renewed by an application of this mixture which is made up of those varieties of seeds which will rapidly grow and occupy ground before weeds obtain a foothold. A spotted lawn may thus be made uniform and beautiful at slight expense. Price. Lb., 35c; 10 lbs., \$3.25; 25 lbs., \$8.00; 50 lbs., \$15.50; 100 lbs., \$30.00; by express or freight at purchaser's expense.

### Fair Green Mixture.

Golf courses require a mixture of grass seed which will give a smooth, level, compact turf. Our long experience in the mixing of grasses enables us to select those best adapted for this purpose. This seed was sown on the Minikahda Club's golf course, pronounced by professional players to be the finest sward in the country. Price. Lb., 40c; 10 lbs., \$3.50; 25 lbs., \$8.50; 50 lbs., \$16.50; 100 lbs., \$32.00; by express or freight at purchaser's expense.

### Putting Green Grass Seed.

A superior mixture of deep rooting grasses, of fine fibrous character, forming a strong, durable turf. Excellent for croquet or bowling greens, tennis lawns, putting greens or other places where a durable, fine sward is desired. Present value. Lb., 40c; 10 lbs., \$3.50; 25 lbs., \$8.50; 50 lbs., \$16.50; 100 lbs., \$32.00; by express or freight at purchaser's expense. If wanted by parcel post, add for postage at rate on page one.

### Nurse Crops For Lawns.

Kentucky Blue Grass is the basis of all good grass seed mixtures and the one which will eventually, occupy the land. It is very slow to germinate, frequently lying in the soil 5 to 6 weeks before sprouting. On this account we advise the general use of nurse crops. For this purpose we recommend oats, medium red clover and winter rye, to be used according to the suggestions below. For the fall nurse crop use winter rye.

Nurse crops are especially desirable when a lawn is sown very late in the Spring and there is danger that the hot sun will dry up the soil and burn the grass seedlings before they become well started. Under these conditions either oats or medium red clover are useful. Oats produce shade more quickly, but medium red clover is more attractive and also enriches the soil. Medium red clover is also valuable for improving vacant lots, boulevards, or wherever a good effect is desired at slight expense.

### Sterling Garden and Lawn

 Fertilizer, an excellent lawn dressing containing the proper plant food to stimulate the grass into luxuriant growth. This is especially valuable in early Spring to fertilize the bare places before sowing seed. See page 109 for complete directions. Prices: 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.87; 100 lbs., \$3.50; F. O. B. Minneapolis.

### Grass Seed Required.

Quantity For New Lawns.  
 1 lb. for 350 square feet.  
 3 lbs. for 1050 square feet.  
 5 lbs. for 1750 square feet.  
 10 lbs. for 3500 square feet.  
 100 to 125 lbs. per acre.

## SWEET PEAS

### Northrup, King & Co.'s Selection of Spencer or Orchid-Flowered Sweet Peas for 1918

The following varieties represent the most beautiful of all Sweet Peas to date, the greatest advance in Sweet Peas in a decade. We urge all Sweet Pea lovers to plant our superb Spencer or Orchid-Flowered Sweet Peas this Spring.

We are satisfied that the newer Spencer Varieties of Sweet Peas are not yet fully appreciated in the United States. The supply of seed of the sorts which we offer below is still very limited but when the seed stock increases and they become better known they will be far more popular.

Both in colors and size they represent the latest triumphs of the plant breeder's skill. In these will be found the richest shades from apricot pink to silvery blue, ivory white to royal purple.

We trust all our customers will try a few of these beautiful selections this year, that they may enjoy in their own gardens, the Sweet Peas which at home and abroad have received high awards at many Sweet Pea exhibitions.

#### NAMED VARIETIES—SPENCERS.

2835. **Barbara.** Beautiful rich salmon-orange self. Pkt., 20c; oz., 50c.  
 2837. **Blanche Ferry Spencer.** Rose standard, white wings, tinted light pink. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00.  
 2840. **Constance Hinton.** A new white, fine large flower, black seed-ed. Pkt., 15c; oz., 45c;  $\frac{1}{4}$  lb., \$1.25; lb., \$4.50.  
 2842. **Dainty Spencer.** Creamy white, with pink edge. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00.  
 2844. **Dobbie's Cream.** Beautiful primrose colored flowers, nicely waved. Can also be described as a rich cream. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00.  
 2846. **Elfrida Pearson.** One of the best light pinks, a strong grower. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00.  
 2848. **Empress Eugenie.** Light gray, flaked with lavender. Pkt., 15c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.50.  
 2850. **Hercules.** Giant pale rosy pink. This shade will please the most fastidious. Pkt., 15c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.50.  
 2852. **Illuminator.** Brilliant salmon pink, very rich color. Pkt., 15c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.50.  
 2854. **King Edward Spencer.** The best pure red Spencer, large flower. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00.  
 2856. **King Mauve.** Largest waved mauve. Pkt., 15c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00.  
 2858. **Lady Evelyn Eyre.** Blush pink, flushed salmon, white ground. Pkt., 15c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.50.  
 2860. **Lavender George Herbert.** Very fine bluish lavender. Strong grower, giving long stems and plenty of flowers. Pkt., 10c; oz., 30c.  
 2862. **Margaret Atlee.** We consider this one of the most beautiful Spencers. Very fine apricot on cream. Pkt., 15c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00.  
 2864. **Margaret Madison.** Clear azure blue, tinted mauve. A large, perfect Spencer and a lovely shade. Pkt., 15c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00.  
 2866. **May Unwin.** Finest orange scarlet. Pkt., 20c; oz., 50c;  $\frac{1}{4}$  lb., \$1.50.  
 2868. **Mrs. Cuthbertson.** White wings, standard rose pink; a fine large pale bi-color. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00.  
 2870. **Mrs. C. W. Breadmore.** Buff ground, edged with pink. Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.50.  
 2872. **Mrs. Hugh Dickson.** Pinkish apricot on a cream ground, strong grower. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00.  
 2874. **Mrs. W. J. Unwin.** White flaked orange scarlet. Pkt., 10c; oz., 30c.  
 2876. **New Miriam Beaver.** Shell salmon pink. Pkt., 15c; oz., 35c.  
 2878. **Nubian.** Fine, deep chocolate. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00.  
 2880. **New Helen Pierce.** Marbled blue on white. Pkt., 15c; oz., 40c.  
 2882. **R. F. Felton.** A large and beautiful lilac lavender, wings suffused with French gray. Pkt., 15c; oz., 45c;  $\frac{1}{4}$  lb., \$1.25.  
 2884. **Robert Sydenham.** Glowing orange salmon. Pkt., 20c; oz., 50c.  
 2886. **Rosabelle.** A very large and rich bright rose. A grand and very effective variety. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00.  
 2888. **Royal Purple.** A very fine royal purple. Pkt., 15c; oz., 45c.  
 2890. **Senator Spencer.** Claret and chocolate stripe on heliotrope ground. Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00.  
 2892. **Sincerity.** A beautiful deep glowing cerise. No other variety can approach it in its color class. Pkt., 15c; oz., 50c;  $\frac{1}{4}$  lb., \$1.75.  
 2894. **Vermilion Brilliant.** A large and fine brilliant scarlet of splendid form. Pkt., 15c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.50.  
 2896. **Wedgewood.** Bright silvery blue. Pkt., 15c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00.

#### Northrup, King & Co.'s New Giant Orchid-Flowering or Spencers

Spencer Sweet Peas under favorable conditions, show a strong healthy growth. The plants attain a height of six to nine feet, requiring a six inch space for full development. The blossoms are of immense size, measuring 2 to  $2\frac{1}{2}$  inches across, with 3 or 4 on a stem. They are beautifully formed with huge standards, open and upright and immense wings gracefully poised. Both standards and wings are delicately waved.

**The President.** The most brilliant, rich, dazzling orange-red Sweet Pea in existence, equal in color to the Oriental Poppy, a robust grower, producing in abundance, flowers of largest size and best form, perfectly placed on stout stems, 16 to 18 inches long. Packet, 25c.

**Fiery Cross.** Fiery Cross has all the appearance of live fire, the color being a scorching fire-red, or scarlet, without any shading and which scintillates and glitters in bright sunlight, thus adding a glowing, fire-like sheen which radiates over the flower. Unlike most of the orange-scarlet varieties, it does not scorch or burn even during extended periods of intense sunshine, therefore it can be grown in all soils without shading. The beautifully waved and fluted flowers are borne freely in threes and fours, well placed on long, stout stems.

Packet, 25c.



An average spray of  
"Fiery Cross"

**King White.** Too much cannot be said in praise of this unique new white Spencer. It has all the first-class qualities which go to form Sweet Pea perfection. It is remarkable for the "glistening immaculate purity of the whiteness" and the perfect finish of the flower. While of truly gigantic proportions, the flowers are most exquisitely finished in every detail.

Pkt. 10c; oz., 35;  $\frac{1}{4}$  lb., \$1.25.

**The Cardinal.** Brilliant intense poppy scarlet, large waved flowers of great substance bearing four blossoms to a stem. Undoubtedly the best sunproof scarlet. Pkt., 25c.

**New Buttercup.** Fine deep cream and the nearest approach to a yellow yet introduced, it being deeper in color than Dobbie's Cream, having immense frilled blossoms, bearing four blossoms to a stem, duplex. White seeded. Pkt., 25c.

**Rosy Morn.** A charming new bi-color having a pinkish lilac standard with white wings. The blossoms are of great size and throw fours freely. Pkt., 25c.

**Moonlight.** Light pale blue shaded on lemon. Packet, 25c.

See page 7 for collections of Spencer Sweet Peas.

# Northrup, King & Co.'s Sweet Peas.

## Named Grandifloras.

This is the well known type which has been grown for many years. It comprises two forms, "hooded or shell-shaped," and "open". The Grandifloras are most easily grown and are always popular.

We will furnish the following varieties at the uniform price of 5c a pkt., 20c an oz., 60c for a  $\frac{1}{4}$  lb., \$2.00 a lb.

### WHITE.

3032. Dorothy Eckford. Finest white; very large, grand substance.

### YELLOW.

3048. Hon. Mrs. E. Kenyon. Clear buff-yellow, spreading flowers.

### PINK AND ROSE SHADES.

3050. Apple Blossom. Crimson pink. Very fragrant, profuse bloomer.

3058. Janet Scott. Deep pink, tinged buff, strong grower.

3070. Miss Wilmot. Deep orange-pink; shaded with rose. Is a plant of very tall, strong growth and exceptional fragrance.

3074. Prima Donna. Lovely pale pink; the leading pink variety of the type; tendrils colored.

3075. Prince of Wales. Bright Rose.

### RED STANDARD, WHITE WINGS.

3078. Extra Early Blanche Ferry. The popular pink and white. Bloom profuse, lasting well on the plant; sunproof.

### LAVENDER.

3100. Lady Grisel Hamilton. Pale lavender-blue. The best of its color in this type. Moderately vigorous in growth.

### SHADES OF RED.

3084. King Edward VII. Bright crimson. This variety represents the acme of crimson-scarlet varieties of the open or the hooded form.

3087. Queen Alexandra. Nearest pure scarlet. Flowers two to three on long strong stems.

3092. Sunproof Satopian. Clear scarlet. This variety is not subject to burning under hot suns.

### BLUE AND PURPLE SHADES.

3106. Brilliant Blue. Richest navy blue. The best dark blue of this type.

3114. Flora Norton. Beautiful bright blue. Small flower but excellent as a garden variety on account of its unusual color.

3115. Helen Pierce. Pure white, mottled blue. Distinct. One of the indispensable varieties for a complete collection.

3117. Mrs. Walter Wright. Deep mauve. Continuous bloomer. Sunproof.

3124. Aurora. Flaked orange-salmon. This variety and Dorothy Eckford represent the perfection of the hooded form.

### MAROON.

3128. Black Knight. Very deep maroon, large size and open form. One of the darkest varieties and the best of its color in this type.

## Northrup, King & Co.'s Waved or Unwin Sweet Peas.

This class of Sweet Peas is similar to the famous Spencers, but the blossoms are smaller and frequently of rather heavier texture. They exist in many colors, but we list only the most popular. Both standard and wings are wavy and nicely formed. They seed more freely than Spencers and are for that reason less expensive, but still are higher in price than the Select or Grandiflora type.

3006. Frank Dolby. A large, fine, light lavender, with bold wavy standard, spreading wings, beautifully fluted. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 65c; lb., \$2.00.

3007. Gladys Unwin. Lovely light pink. A bold flower, crinkled and waved. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50.

3019. Nora Unwin. Beautiful pure white, finely waved or fluted. A very effective flower of good substance. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 65c; lb., \$2.00.

### Grandiflora Sextette Collection.

1 packet each of 6 Grandiflora varieties in separate colors for 25c. Dorothy Eckford, white. King Edward VII, red. Lady Grisel Hamilton, lavender. Miss Wilmot, deep orange pink. Prima Donna, pink. Black Knight, maroon.

### Grandiflora Collection A.

One packet each of the 18 varieties of Grandifloras listed above for 75c.

### Grandiflora Collection B.

One ounce each of the 18 varieties of Grandifloras listed above for \$1.75.

## Northrup, King & Co.'s Twelve Bouquet

Gems. 50c, postpaid. This beautiful collection contains one packet of each of the 12 choicest large flowered, fragrant sorts; borne on long stems, embracing the cream of our Grandiflora list. We also offer one ounce of each of the twelve Bouquet Gems for \$1.25, postpaid.

### 3021. Gold Medal Spencer Sweet Peas Mixed.

This is a combination of many very beautiful Spencers or Giant Orchid Flowering Sweet Peas of recent introduction and will prove a real treasure in its great range of rich colors and shades. Pkt., 100 seeds, 10c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.50, postpaid.

## SPENCER SWEET PEA COLLECTIONS.

### 2900. "Columbia" Collection 25c.

One packet each of three varieties of Spencers, in three distinct colors—red, white and blue, our selection; 3 packets for 25c, postpaid.

### 2902. "Spencer Sextette" Collection 50c.

One packet each of six superb Spencer varieties in separate colors for 50c.

### 2904. "Customer's Choice" Collection \$1.25.

One packet each of any ten varieties of Spencer Sweet Peas on page six, customer's selection except 25c packets; 10 packets for \$1.25, postpaid.

### 2906. "Dollar" Collection \$1.00.

One packet each of twelve beautiful varieties of Spencer Sweet Peas offered on page six, our selection; 12 packets for \$1.00, postpaid.

### 2908. "Minnetonka Gems" Collection \$3.75.

One packet each of 31 varieties of Spencer Sweet Peas on page six, 31 packets for \$3.75 postpaid. This does not include 25c packets.

### 2910. "Exhibition" Collection \$4.25.

A rare opportunity for Sweet Pea lovers to secure a marvellous assortment of the choicest new varieties of Spencers.

One packet each of 31 varieties of Spencer Sweet Peas, also one packet each of "The President," "Fiery Cross" and "King White" for \$4.25.

### 3150. Northrup, King & Co.'s Sterling Mixture.

The finest and most desirable mixture possible to put together. The acme of richness and beauty, matchless in combinations of colors and giant sweet scented flowers. Every color of the rainbow and an almost unlimited variety of shades, tones and combinations of colors, striped, splashed, mottled and margined. Nothing seems to have been forgotten. It is made up regardless of expense, the aim being to secure in this mixture the largest flowering sorts and the widest possible range of colors. Without doubt this mixture reaches perfection. It is our aim to constantly improve, when possible, by adding new varieties as they are introduced. We include the magnificent Spencers, the superb Unwins and the always popular Grandifloras; a mixture, in fact, of which any one may be proud. Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.50, postpaid.

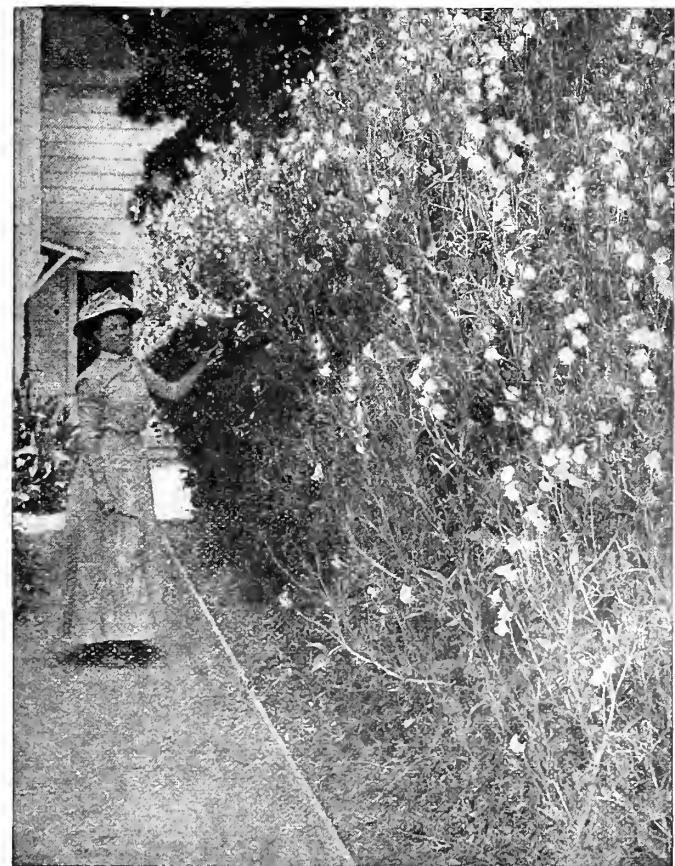
3155. Eckford's Large Flowering Mixed. This mixture embraces the introductions, including the recent novelties of Mr. Eckford, the Sweet Pea specialist of England, who has accomplished more than any other individual in bringing the Sweet Pea to its present state of beauty, size and perfection. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25, postpaid.

3160. Choice Mixed. This is a most excellent mixture, embracing all the standard varieties and many colors. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00, postpaid.

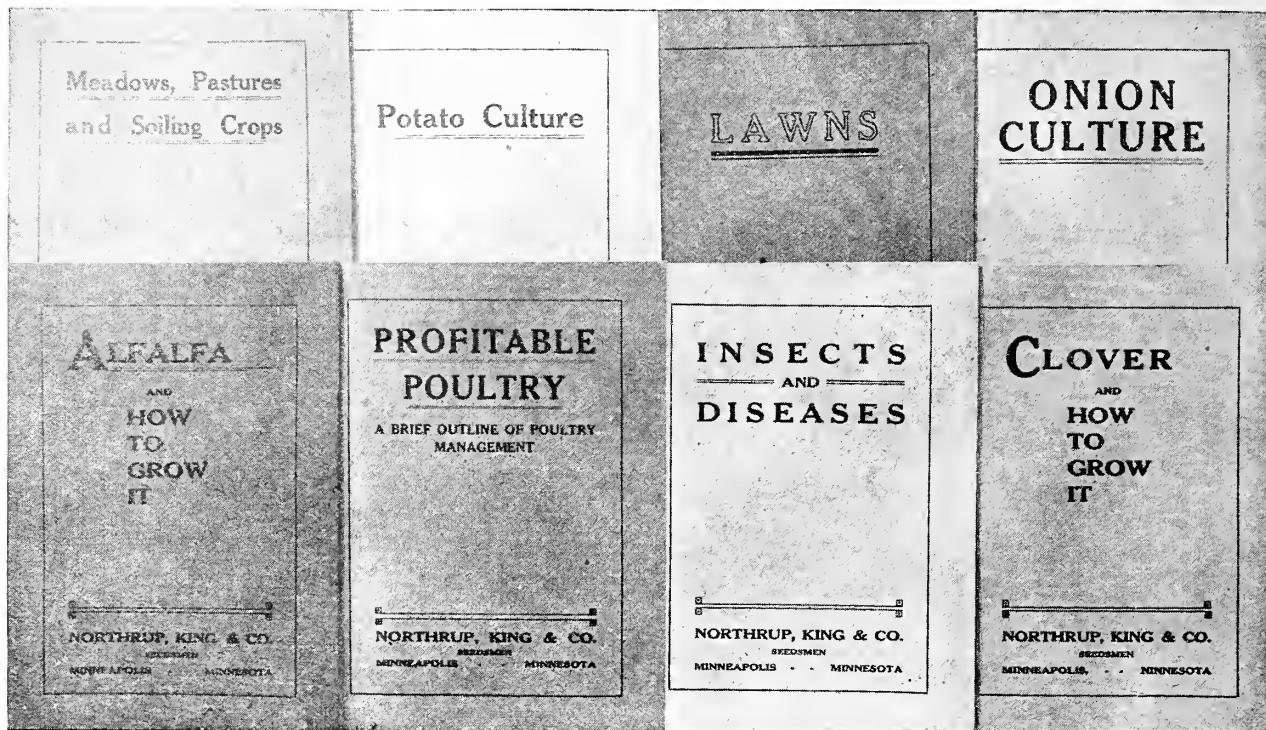
3165. Cupid Dwarf or Bedding Mixed. Sown as a border they form a line of emerald green foliage a little over a foot wide and from 5 to 6 inches high, and from June until late summer are literally a sheet of bloom and from the fact that they cover the ground so closely they are not so likely to suffer from drought as the tall sorts. Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.50, postpaid.

3170. Northrup, King & Co.'s Giant Orchid Flowering or Spencer Mixture.

Spencer varieties of Sweet Peas have come into general favor so rapidly that the demand has been large for all Spencer sorts in mixture. We have included in this combination nearly all of the Spencers, making it a rare and lasting pleasure to the grower. The vines are strong, healthy and vigorous in growth and produce in wonderful profusion, long and strong stemmed flowers of great beauty, size, perfect form and coloring. Those preferring to grow all sorts together, rather than separate colors, will find this unsurpassed. Pkt., 100 seeds, 10c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.50 postpaid.



A Fine, Well Grown Row of Sweet Peas.



Our Library of Sixteen Booklets for the Successful Farmer and Gardener.

## DO YOU WANT BOOKLETS ON LIVE TOPICS?

"Alfalfa." Seeding, cultivating, harvesting and feeding this valuable crop.  
 "Cabbage Growing." Seeding, transplanting, cultivation, harvesting, etc.  
 "Clover." Handles this subject in concise, though complete manner.  
 "Corn for the Northwest." Suggests how to raise more profitable corn crops.  
 "Hand Book for the Garden." Culture for vegetables, flowers, shrubs, etc.  
 "Insects and Diseases." Deals with the control of insects and diseases.  
 "Lawns." How to build a new lawn, repair old lawns and keep a lawn green.  
 "Meadows, Pastures and Soiling Crops."  
 "More Pork Profits." The care and feeding of swine, including pasture crops.  
 "Onion Culture." Treats on every phase of this subject.  
 "Potato Culture." Of value to all potato raisers, for market or home use.  
 "Profitable Poultry." Feeding and care of poultry from baby chick to laying hen.  
 "Quack Grass and Other Weeds." Explains control or elimination.  
 "Root Crops." Carrots, rutabagas, mangels, sugar beets, etc. for stock feed.  
 "Silage and Silos." A treatise on growing, handling and feeding silage.  
 "Vine Crops." Culture of tomatoes, cucumbers, melons, strawberries, etc.

Our sixteen booklets on the above subjects may tell you many things you already know; they are also quite sure, we think, to tell you some things

that you do not know. If they give you just ONE IDEA that will save you labor or increase your profits, it is well worth your while to read them.

**Our Offer.** The regular price of these booklets is ten cents each. We will, however, send *if requested*, a booklet free with orders for each of the articles on which the booklets treat. With an order for Field Corn, we will send a booklet on "Field Corn for the Northwest;" with an order for Poultry Feed or Supplies, we will send a booklet on "Profitable Poultry;" also with an order for Onion Seed, a booklet on "Onion Culture" and so on through the list. To those who wish to obtain the booklets immediately, we make the following special offer to get them into the hands of users of seeds early in the season. We will send any one booklet, postpaid, for 5 cents; any seven booklets for 25 cents, or *the entire set of sixteen will be mailed, postpaid, for only 50c.* To make this offer stronger, if on the receipt of the booklets you are not entirely satisfied with the investment, keep the booklets and we will promptly and without question refund the money paid for same. These booklets, while not pretentious, contain information that you will find valuable; that is why we want you to read them.

## INFORMATION AND SERVICE BUREAU.

For many years past, we have been in the habit of replying, more or less fully, to a great many thousands of inquiries which have come to us by mail, on subjects pertaining to farming, gardening, mixtures of grasses for various purposes, varieties best adapted for local conditions and many other items on agriculture, horticulture and floriculture. Many of these queries require much more information than can conveniently be given in a letter, but in such cases we either send a booklet which will furnish the desired material or will refer the customers to a book or books where it may be obtained.

Our large organization is composed of over four hundred persons. Many have long been connected with this business and have gained a fund of valuable knowledge and information. Others have come from houses

long established in the seed business in the older countries of Europe. Each is especially fitted and trained in his own particular line. Having this corps of experienced men we are in a position to disseminate accurate and timely suggestions without cost to our customers and in no way incurring obligation.

We therefore urge those desiring assistance or advice to correspond with us and we will gladly give all the information in our power, within the reasonable bounds of a letter. Please write inquiries on a sheet of paper separate from your order, so that it may not interfere with prompt shipment of your order. We also have issued a series of booklets on timely subjects which are listed above. These will be sent free with orders as stated, or may be secured very reasonably. Money refunded if not satisfactory.

## Features of Especial Interest to be found in this Catalogue.

Not content with making this catalogue a mere price list, we have tried to include as many cultural notes and helpful suggestions as possible, so it will be a complete book of reference for farmers and gardeners.

Every farmer will enjoy what is said about "Alfalfa," "Sterling Silo Corn," "Sudan Grass," "Marquis Wheat," etc.

The Market Gardeners will be interested in "Golden Bantam Corn," "Northern Grown Onion Sets," "Peas" and "Beans" as well as "Minnesota Red, Yellow and White Globe Onions."

Flower lovers will find the many cultural directions helpful, particularly those for Perennial Seeds, and Phlox.

Everyone who raises food in a garden or on a farm this year will find throughout this book suggestions that will help him get the most out of his efforts to increase the food supply. Improved methods of gardening and farming coupled with the use of reliable seeds can help materially toward winning the war.

Poultrymen may obtain valuable information regarding the raising of chicks, the feeding and care of hens, from the poultry pages.

For these reasons we hope our customers will not discard this catalogue after making out their orders, but will preserve it for reference during the growing season or for the guidance and information of their friends.

To make it easy to procure Northrup, King & Co.'s seeds we have placed them on sale in the stores of nearly twenty thousand dealers throughout the Northwest. Whenever requested we are glad to furnish names of the nearest dealers who handle these seeds. If it is not convenient to obtain the seeds you wish from local dealers, write us and we can supply you.

### Arrangement of Departments in this Catalogue.

Vegetable Seeds. Arranged in alphabetical order. Pages 9 to 55.  
 Flower Seeds. Annuals, Pages 56 to 72; Perennials, Pages 73 to 77.  
 Grass and Field Seeds, Grains and Forage Crops. Pages 78 to 103.  
 Insecticides, Poultry Supplies and Sundries. Pages 104 to 111.

### What Our Trade Mark Means.

Our Sterling Bag Trade Mark is used to brand only those varieties of seeds which we can especially recommend to our customers. A variety so marked will be found the best of its kind in every instance. We use this method to designate our specialties.

Sterling Brand Seeds are for those who want the best. Unexcelled for purity, germination, plumpness and color. Look for the Sterling Trade Mark.



United States  
Food Administration  
License No. G-32453.

## PRICE LIST OF VEGETABLE SEED

All Prices Are Subject to Change Without Notice.

**Opening Prices** are listed below for all varieties of vegetable seed described on the following pages. Owing to the general scarcity of all kinds of seed, it may be necessary to advance some of these prices during the season.

**If Prices Change** and orders are received at prices named below, seed will be sent equivalent to the money received, figuring the order at current prices.

**We Prepay Postage** on all vegetable and flower seeds except sweet corn. On these three items, add postage at parcel post rates named on page 1. Large lots are sent by express or freight at customer's expense.

**Prices of Other Seeds** which are not listed on pages 9, 10 and 11, including flower, field, and grass seeds, are given under the variety descriptions wherever possible. When prices are not shown, the latest market quotations can be obtained from the nearest dealer who handles our line, or will be supplied by us on request.

**Your Opportunity.** Help feed the starving men, women and children of war-stricken nations across the sea. Help feed the armies which are striving to protect you and to

make the world a safe place for you to live the normal, peaceful life that is your right.

**Plant Every Foot of Ground** available and raise by much as possible. Make your war garden produce its full share so that more food can be sent where the need is so great.

**Select the Varieties** best adapted to your conditions and during the 1918 season. If you have never planted a garden before, try it this season with a determination to make it successful. There will be a great satisfaction in knowing that you are doing your best in the way that will help most to hasten the victory for the cause of democracy and right.

**Buy Your Seed Early.** The immense demand for seeds of all kinds and the general scarcity this year make it advisable to procure as early as possible all the seed you need.

**Don't Waste Seed.** Don't buy more than you can use to advantage and see that all the seed you buy is made as productive as possible. Conservation of seed is as important as conservation of food.

	Pkt.	Pkt.	Oz.	1/4 lb.	1 lb.		Pkt.	Oz.	1/4 lb.	1 lb.	10 lbs.	
<b>ARTICHOKE</b>												
5. Green Globe.....	12	15c	60c	\$2.00	\$5.50		215.	Extra Early Egyptian.....	16	5c	20c	\$1.75
			1 lb.	5 lbs.	10 lbs.	25 lbs.	225.	Half Long Blood.....	17	5c	20c	2.00
			50c	75c		50 lbs.	230.	Improved Long Blood.....	17	5c	20c	1.75
							235.	Swiss Chard.....	17	5c	20c	2.00
							238.	Giant Lucullus Swiss Chard.....	17	10c	25c	2.50
<b>ARTICHOKE ROOTS.....</b>	12	15c	1/4 lb.	1 lb.								
			100	1000								
<b>ASPARAGUS SEED</b>	Pkt.	Oz.	1/4 lb.	1 lb.								
10. Bonvallet's Giant.....	12	5c	10c	25c	85c		245.	Snow White.....	17	15c	75c	2.50
15. Columbian Mammoth White.....	12	5c	10c	25c	85c		240.	Improved Dwarf.....	17	10c	30c	3.00
20. Conover's Colossal.....	12	5c	10c	20c	75c		242.	Dalkeith or Perfection.....	17	10c	35c	3.50
22. French Giant Argenteuil.....	12	5c	10c	20c	75c							
25. Palmetto.....	12	5c	10c	20c	75c							
			Per	Per								
<b>ASPARAGUS ROOTS</b>												
Barr's Mammoth.....	12	1.00	\$8.50	.....	.....		282.	Jaensch's Victrix.....	18	5c	15c	40c
Bonvallet's Giant.....	12	1.00	8.50	.....	.....		275.	Giant Feeding Sugar Beet or Half Sugar White Mangel.....	18	5c	15c	40c
Columbian Mammoth White.....	12	1.00	8.50	.....	.....		277.	Royal Giant Sugar Beet or Half Sugar Rose Mangel.....	18	5c	15c	40c
Conover's Colossal.....	12	1.00	8.50	.....	.....		280.	Sugar Beet for Stock Feeding.....	18	5c	10c	35c
French Giant Argenteuil.....	12	1.00	8.50	.....	.....		285.	Vilmorin-Elite.....	18	5c	15c	40c
Palmetto.....	12	1.00	8.50	.....	.....		290.	Klein Wanzlebener-Elite.....	18	5c	15c	40c
<b>BEANS</b>												
<b>Dwarf Wax Varieties</b>	Pkt.	1/4 lb.	1 lb.	5 lbs.	10 lbs.							
30. Currie's Rust Proof Black Wax.....	13	5c	20c	50c	\$2.25	\$4.00	250.	N. K. & Co.'s Improved Mammoth Long Red.....	18	5c	10c	30c
35. Davis Kidney Wax.....	13	5c	20c	55c	2.50	4.50	255.	N. K. & Co.'s Imp. Gldn. Tkrd.....	19	5c	10c	35c
40. Improved German Black Wax.....	13	5c	20c	50c	2.25	4.00	256.	Crimson Tankard.....	19	5c	10c	30c
42. Challenge Black Wax.....	13	5c	20c	50c	2.25	4.00	258.	Danish Shudstrup.....	19	5c	10c	35c
44. Pencil Pod Black Wax.....	13	5c	20c	50c	2.25	4.00	265.	Mammoth Golden Giant.....	19	5c	10c	35c
45. Improved Golden Wax.....	13	5c	20c	50c	2.25	4.00	266.	Giant Red Eckendorf.....	19	5c	10c	30c
55. Wardwell's Kidney Wax.....	13	5c	20c	60c	2.75	.....	262.	Giant Yellow Eckendorf.....	19	5c	10c	30c
57. Refugee Wax.....	13	5c	20c	55c	2.50	4.50	270.	Yellow Globe.....	19	5c	10c	30c
<b>Dwarf or Snap, Green Pod Varieties</b>												
60. Bountiful.....	13	5c	15c	40c	1.75	3.00						
65. Black Valentine.....	13	5c	15c	40c	1.75	3.00						
68. Dwarf Horticultural.....	13	5c	20c	55c	2.50	4.50						
70. Extra Early Red Valentine.....	13	5c	15c	45c	2.00	3.50						
72. Longfellow.....	13	5c	15c	40c	1.75	3.00						
75. Long Yellow Six Weeks.....	13	5c	15c	40c	1.75	3.00						
80. Refugee.....	13	5c	15c	40c	1.75	3.00						
85. Stringless Green Pod.....	13	5c	15c	45c	2.00	3.50						
87. Imp. God'r'd or Boston Favorite.....	13	5c	15c	40c	1.75	3.00						
<b>Pole or Running Varieties</b>												
100. Kentucky Wonder.....	14	5c	15c	45c	2.00	3.50						
102. Kentucky Wonder Wax.....	14	5c	20c	50c	2.25	4.00						
90. Big Profit Pole Bean.....	14	5c	20c	50c	2.25	4.00						
95. Golden Cluster Wax.....	14	5c	20c	60c	2.75	.....						
98. Horticultural Pole.....	14	5c	15c	45c	2.00	3.50						
105. King of the Garden Lima.....	14	5c	15c	45c	2.00	3.50						
107. Large Green Seeded Pole Lima.....	14	5c	15c	45c	2.00	3.50						
110. Large White Lima.....	14	5c	15c	45c	2.00	3.50						
115. Lazy Wife.....	14	5c	20c	60c	2.75	.....						
120. Scarlet Runner.....	14	5c	20c	60c	2.75	.....						
122. White Dutch Runner.....	14	5c	20c	60c	2.75	.....						
125. White Creaseback.....	14	5c	15c	45c	2.00	3.50						
<b>Dwarf or Bush Lima Varieties</b>												
130. Burpee's.....	14	5c	20c	55c	2.50	4.50						
135. Dreer's.....	14	5c	20c	60c	2.75	.....						
140. Henderson's or Sieva.....	14	5c	20c	50c	2.25	4.00						
145. New Wonder Bush Lima.....	14	5c	20c	50c	2.25	4.00						
<b>Field Beans</b>												
150. Improved Tree Bean.....	15	5c	15c	35c	1.50	2.75						
155. Brown or Swedish.....	15	5c	10c	30c	1.25	2.25						
160. Choice Navy.....	15	5c	10c	30c	1.25	2.25						
162. White Tepary Bean.....	15	5c	10c	30c	1.25	2.25						
165. Red Kidney.....	15	5c	15c	35c	1.50	2.75						
170. Boston Yellow Eye.....	15	5c	15c	35c	1.50	2.75						
<b>BEET</b>												
	Pkt.	Oz.	1/4 lb.	1 lb.	10 lbs.							
175. N. K. & Co.'s Sterling.....	16	10c	25c	65c	\$2.25	.....	410.	N. K. & Co.'s Chantenay.....	23	10c	25c	75c
180. N. K. & Co.'s Mkt. Gardener's	16	5c	20c	60c	2.00	.....	415.	Chantenay.....	23	5c	25c	65c
185. Crimson Globe.....	16	5c	20c	55c	1.85	.....	420.	Early French Forcing.....	23	10c	30c	80c
190. Crosby's Egyptian.....	16	5c	25c	65c	2.25	.....	425.	Early Scarlet or Short Horn.....	23	5c	25c	65c
195. Detroit Dark Red.....	16	5c	25c	65c	2.25	.....	430.	Imp. Danvers Half Long.....	23	5c	20c	60c
200. Early Blood Turnip.....	16	5c	15c	45c	1.60	.....	435.	Improved Long Orange.....	23	5c	20c	60c
202. Early Model.....	16	10c	25c	75c	2.50	.....	438.	James Intermediate.....	23	10c	20c	60c
205. Eclipse.....	16	5c	20c	50c	1.75	.....	440.	Hlf. Lng. Scarlet Nantes Stump	23	10c	25c	75c
210. Edmand's Imp. Blood Turnip.	16	5c	15c	45c	1.65	.....	445.	Rooted.....	23	10c	25c	2.50
							445.	Oxhcarr or Guucrane.....	23	5c	25c	65c
							450.	N. K. & Co.'s Mastodon.....	24	5c	15c	45c
							455.	Victoria.....	24	5c	15c	1.50

## VEGETABLE SEED PRICE LIST (Con.)

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 United States  
 Food Administration  
 License No. G-32453

	Pkt.	Oz.	1/4 lb.	1 lb.	10 lbs.	OKRA or GUMBO	Pkt.	Oz.	1/4 lb.	1 lb.	
CAULIFLOWER	25	25c	\$3.50	\$10.00	\$35.00	760. Mammoth Long Podded.....	33	5c	10c	30c	
460. N. K. & Co.'s Model.....	25	25c	4.00	11.50	40.00	762. Dwarf Green.....	33	5c	10c	25c	
465. N. K. & Co.'s Drought Resisting.....	25	25c	3.50	10.00	35.00	763. Long Green.....	33	5c	10c	30c	
470. Snowball.....	25	25c	3.50	10.00	35.00	764. White Velvet.....	33	5c	10c	25c	
475. Extra Early Dwarf Erfurt.....	25	25c	3.50	10.00	35.00						
482. Extra Early Paris.....	25	20c	2.00	6.00	20.00						
CRESS						MUSHROOMS					
485. Fine Curled (Pepper Grass).....	25	5c	10c	30c	1.00	Lambert's Pure Culture Spawn, See page 33					
490. Water Cress.....	25	10c	50c	1.50	5.00						
495. CHIVES.....	25	15c	1.00	.....	.....						
CELERIAC (Turnip Rooted Celery)						LETTUCE					
500. Large Erfurt.....	25	10c	35c	1.00	3.50	Heading Varieties					
CELERERY						765. N. K. & Co.'s "Sterling".....	34	5c	20c	60c	
505. N. K. & Co.'s Gldn. Self Blnch'g.....	26	25c	1.50	4.50	15.00	780. Black Seeded Tennis Ball.....	34	5c	15c	45c	
510. Gldn. Self Blnch'g, Am. Grown.....	26	15c	75c	2.25	7.50	790. California Cream Butter.....	34	5c	20c	50c	
515. N. K. & Co.'s Kalamazoo.....	26	10c	25c	75c	770. N. K. & Co.'s Market Gardener's.....	34	5c	20c	50c		
520. White Plume.....	26	10c	40c	1.15	4.00	785. Big Boston.....	34	5c	20c	60c	
530. Golden Hearted Dwarf.....	26	10c	25c	75c	787. Black Seeded All Seasons.....	34	5c	20c	50c		
535. Giant Pascal.....	26	10c	30c	85c	795. Crisp as Ice.....	34	5c	20c	50c		
537. Winter Queen.....	26	10c	30c	85c	800. Deacon (or San Francisco Market).....	34	5c	20c	50c		
SWEET CORN						810. Golden Queen.....	34	5c	20c	50c	
The Two Best Early Varieties	Pkt.	1/4 lb.	1 lb.	5 lbs.	10 lbs.	820. Iceberg.....	34	5c	20c	60c	
545. Golden Bantam.....	27	5c	20c	50c	2.25	4.00	835. Prizehead.....	35	5c	20c	50c
540. N. K. & Co.'s Peep o' Day.....	27	5c	15c	35c	1.50	2.75	825. Improved Hanson Head.....	35	5c	20c	50c
Extra Early Varieties						830. May King.....	35	5c	20c	60c	
550. Early Minnesota.....	28	5c	15c	35c	1.50	2.50	837. Tenderheart.....	35	5c	25c	75c
555. Early Red Cory.....	28	5c	15c	35c	1.50	2.50	838. Wayahead.....	35	10c	25c	75c
560. Extra Early White Cory.....	28	5c	15c	35c	1.50	2.50	839. New York or Wonderful.....	35	5c	20c	60c
562. Extra Early White Mexican.....	28	5c	15c	40c	1.75	3.25	845. Salamander.....	35	5c	15c	45c
564. Howling Mob.....	28	5c	15c	45c	2.00	3.75	846. Mammoth Black Seeded Butter.....	35	5c	20c	50c
575. Mammoth White Cory.....	28	5c	15c	45c	2.00	3.75					
578. Pocahontas.....	28	5c	15c	45c	2.00	3.75					
Second Early Varieties											
585. N. K. & Co.'s Portland.....	28	5c	15c	45c	2.00	3.50					
590. Early Crosby.....	28	5c	15c	40c	1.75	3.25					
592. Early Evergreen.....	28	5c	15c	45c	2.00	3.50					
595. Perry's Hybrid.....	28	5c	15c	40c	1.75	3.00					
600. White Evergreen.....	28	5c	15c	45c	2.00	3.50					
Late Varieties											
605. N. K. & Co.'s Zig Zag Evergreen.....	29	5c	15c	45c	2.00	3.50					
610. Stowell's Evergreen.....	29	5c	15c	45c	2.00	3.50					
615. Country Gentleman.....	29	5c	20c	50c	2.25	4.00					
620. Improved Black Mexican.....	29	5c	15c	45c	2.00	3.75					
622. Late Mammoth.....	29	5c	15c	40c	1.75	3.25					
CUCUMBER	Pkt.	Oz.	1/4 lb.	1 lb.							
625. N. K. & Co.'s Sterling.....	30	5c	20c	50c	1.75						
635. Ak-sar-ben.....	30	5c	15c	40c	1.25						
640. Boston Pickling.....	30	5c	15c	40c	1.25						
645. Chicago or Westerfield Pickling.....	30	5c	15c	40c	1.25						
650. Cool and Crisp.....	30	5c	15c	45c	1.50						
655. Davis Perfect.....	30	5c	20c	50c	1.75						
660. Early Frame or Short Green.....	30	5c	15c	40c	1.25						
665. Early Green Cluster.....	30	5c	15c	40c	1.25						
630. N. K. & Co.'s Ex. Long Wh. Spine.....	30	5c	15c	45c	1.50						
668. Green Prolific.....	31	5c	15c	40c	1.25						
670. Improved Arlington White Spine.....	31	5c	15c	45c	1.50						
675. Japanese Climbing.....	31	5c	20c	55c	2.00						
680. Klondike.....	31	5c	15c	45c	1.50						
685. Long Green.....	31	5c	20c	50c	1.75						
690. N. K. & Co.'s Pickling.....	31	5c	15c	45c	1.50						
695. N. K. & Co.'s Siberian.....	31	5c	15c	45c	1.50						
697. West Indian Gherkin.....	31	5c	20c	55c	2.00						
700. White Spine Evergreen.....	31	5c	20c	50c	1.75						
705. White Spine, Improved.....	31	5c	15c	40c	1.25						
710. White Spine, Peerless.....	31	5c	15c	45c	1.50						
EGG PLANT											
715. N. K. & Co.'s Improved New York Spineless.....	32	15c	65c	1.85	6.50						
716. Black Beauty.....	32	15c	75c	2.25	7.50						
ENDIVE											
718. Broad Leaved Batavian.....	32	5c	20c	60c	2.00						
720. Green Curled.....	32	5c	20c	50c	1.75						
725. White Curled.....	32	5c	20c	50c	1.75						
739. GARLIC.....	32	.....	.....	.....	30c						
GOURDS, See page 33											
HERBS, See page 55											
KALE or BORECOLE											
740. Dwarf Curled Scotch.....	32	10c	25c	75c	2.50						
742. Tall Green Curled Scotch.....	32	10c	30c	80c	2.75						
KOHL RABI											
745. Early White Vienna.....	32	10c	30c	85c	3.00						
LEEK											
750. Large Am. Flag or "Broad Lndn".....	33	10c	30c	85c	3.00						
MUSTARD											
755. Southern Giant Curled.....	33	5c	15c	35c	1.25						
757. White Mustard.....	33	5c	10c	25c	75c						

## VEGETABLE SEED PRICE LIST (Con.)

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	Pg.	Pkt.	Oz.	1/4 lb.	1 lb.	10 lbs.		Pg.	Pkt.	Oz.	1/4 lb.	1 lb.
<b>ONION SETS</b>							<b>Early Olive Shaped Radishes</b>					
White Bottom Sets.	41			30c			1460. Early Scarlet Olive.	51	5c	20c	50c	\$1.75
Red Bottom Sets.	41			25c			1462. N. K. & Co.'s Spl. Fr. Breakfast.	51	5c	20c	60c	2.00
Yellow Bottom Sets.	41			25c			1465. French Breakfast, Regular Strain.	51	5c	20c	50c	1.75
Red Top Sets.	41			Mkt.			1470. White Olive Shaped.	51	5c	20c	50c	1.75
White Multiplier.	41			35c								
Yellow Multiplier.	41			25c			<b>Long Radishes</b>					
Egyptian Winter or Red Perennial, see page 40.	40						1475. Chartier or Shepherd.	51	5c	15c	45c	1.50
							1480. Glass or Cincinnati Market.	51	5c	20c	50c	1.75
<b>PARSNIP</b>							1482. Long Cardinal.	51	5c	20c	50c	1.75
1135. N. K. & Co.'s Sweet Marrow	42	5c	25c	75c	2.50		1490. Long White Vienna or Ly. Finger.	51	5c	20c	50c	1.75
1140. Guernsey.	42	5c	25c	75c	2.50		1495. White Icicle.	51	5c	25c	65c	2.25
1145. Improved Hollow Crown.	42	5c	25c	75c	2.50		1485. Long Scarlet Short Top.	51	5c	15c	45c	1.50
							1500. White Strasburg.	51	5c	20c	50c	1.75
<b>PARSLEY</b>							1505. Wood's Early Frame.	51	5c	15c	45c	1.50
1150. Dark Moss Curled.	42	5c	15c	40c	1.25							
1155. Double Curled.	42	5c	15c	40c	1.25							
1160. Extra Curled Dwf or Emerald	42	5c	15c	40c	1.25							
1165. Fern Leaved.	42	5c	20c	50c	1.75							
1170. Plain, or Single.	42	5c	10c	30c	1.00							
1175. Turnip Rooted, or Hamburg.	42	5c	20c	50c	1.75							
<b>PEAS</b>							<b>Winter Radishes</b>					
<b>Extra Early Round Seeded Varieties</b>			1/4 lb.	1 lb.	10 lbs.	100 lbs.	1510. California Mammoth White.	51	5c	20c	50c	1.75
1280. N. K. & Co.'s Summit Ex. Ey.	43	5c	15c	40c	3.25	30.00	1515. China Rose.	51	5c	20c	50c	1.75
1285. Alaska.	43	5c	15c	35c	2.75	25.00	1520. Long Black Spanish.	51	5c	20c	50c	1.75
1290. First and Best.	43	5c	15c	35c	2.75	25.00	1525. Round Black Spanish.	51	5c	20c	50c	1.75
<b>Extra Early Dwf Wrinkled Varieties</b>												
1330. American Wonder.	43	5c	15c	35c	2.75	25.00	<b>RHUBARB SEED</b>					
1335. Little Gem.	43	5c	15c	35c	2.75	25.00	1538. Rhubarb Seed.	52	5c	15c	45c	1.50
1338. Little Marvel.	43	5c	15c	40c	3.25	30.00	1540. Strawberry Rhubarb.	52	15c	60c	1.75	6.00
1340. Nott's Excelsior.	43	5c	15c	35c	2.75	25.00						
1342. Richard Seddon.	43	5c	15c	40c	3.25	30.00	<b>RHUBARB ROOTS, See Page 52.</b>					
<b>Early Wrinkled Varieties</b>												
1300. Advancer.	43	5c	15c	35c	2.75	25.00	<b>SALSIFY OR VEGETABLE OYSTER</b>					
1270. Carter's Daisy (Ey. Dwf. Tel.)	44	5c	20c	50c	4.25		1550. Long White French.	52	10c	30c	80c	2.75
1304. Dwarf Difiance.	44	5c	20c	50c	4.25		1555. Sandwich Island.	52	10c	30c	80c	2.75
1305. Gradus.	44	5c	15c	40c	3.25							
1310. Honey Sweets.	44	5c	15c	35c	2.75	25.00	<b>SPINACH</b>					
1315. Horsford's Market Garden.	44	5c	15c	35c	2.75	25.00	1565. Bloomsdale or Savoy Leaved.	52	5c	20c	60c	2.00
1317. Laxtonian.	44	5c	20c	50c	4.25	1569. Round Thick Leaved.	52	5c	20c	60c	2.00	
1325. Thomas Laxton.	44	5c	15c	40c	3.25	1572. Long Season.	52	5c	20c	60c	2.00	
<b>Main Crop Varieties</b>						1575. Long Standing.	52	5c	20c	60c	2.00	
1352. Alderman.	44	5c	15c	40c	3.25	1580. Long Standing Prickly.	52	5c	20c	60c	2.00	
1360. Champion of England.	44	5c	15c	35c	2.75	1570. Munsterland Frost Resisting.	52	5c	20c	60c	2.00	
1265. Colossus.	44	5c	15c	40c	3.25	1590. Prickly Winter.	52	5c	20c	60c	2.00	
1370. Everbearing.	44	5c	15c	35c	2.75	1585. New Zealand.	52	5c	25c	75c	2.50	
1275. Potlatch.	44	5c	15c	40c	3.25							
1375. Stratagem.	44	5c	20c	50c	4.25	<b>SQUASH</b>						
1260. Teddy Roosevelt.	45	5c	15c	40c	3.25	1605. N. K. & Co.'s Improved Hubbard.	53	5c	15c	45c	1.50	
1385. Telephone.	45	5c	15c	35c	2.75	1600. Mammoth Chili.	53	5c	20c	60c	2.00	
1390. White Marrowfat.	45	5c	10c	25c	1.75	1610. Boston Marrow.	53	5c	15c	40c	1.25	
1362. Duke of Albany.	45	5c	15c	40c	3.25	1615. Chicago Warted Hubbard.	53	5c	20c	50c	1.75	
1400. Dwarf Gray Sugar.	45	5c	10c	30c	2.25	1620. Gregory's Delicious.	53	5c	20c	50c	1.75	
1402. Mammoth Melting Sugar.	45	5c	15c	40c	3.25	1625. Red or "Golden" Hubbard.	53	5c	20c	50c	1.75	
<b>PEPPER</b>		Pkt.	Oz.	1/4 lb.	1 lb.	10 lbs.						
1180. Chinese Giant.	46	15c	80c	2.25	8.00	<b>Summer Varieties</b>						
1185. Golden Dawn.	46	15c	60c	1.75	6.00	1630. Delicata.	53	5c	20c	50c	1.75	
1190. Large Bell or Bull Nose.	46	15c	60c	1.75	6.00	1635. Golden Summer Crook Neck.	53	5c	20c	50c	1.75	
1200. Long Red Cayenne.	46	15c	60c	1.75	6.00	1640. White Bush Scallop.	53	5c	15c	40c	1.25	
1202. Neapolitan.	46	15c	60c	1.75	6.00	1645. Yellow Bush Scallop.	53	5c	15c	45c	1.50	
1205. Red Cherry.	46	15c	60c	1.75	6.00	1647. Vegetable Marrow.	53	5c	20c	50c	1.75	
1210. Red Chili.	46	15c	60c	1.75	6.00							
1225. Ruby King.	46	15c	75c	2.15	7.50	<b>TOMATO</b>						
1230. Sweet Mountain.	46	15c	60c	1.75	6.00	1650. N. K. & Co.'s Sterling.	54	10c	40c	1.15	4.00	
1232. Sweet Upright.	46	15c	80c	2.25	8.00	1660. Acme.	54	10c	35c	1.00	3.50	
<b>PUMPKIN</b>						1665. Beauty.	54	10c	35c	1.00	3.50	
1235. N. K. & Co.'s Mammoth Prize.	46	5c	20c	50c	1.75	1675. Dwarf Champion.	54	10c	40c	1.15	4.00	
1240. Connecticut Field.	46	5c	15c	40c	1.25	1685. Favorite.	54	10c	30c	85c	3.00	
1250. Japanese Pie.	46	5c	15c	40c	1.35	1692. Golden Queen.	54	10c	40c	1.15	4.00	
1255. Large Cheese or Kent. Field.	46	5c	10c	30c	1.00	1700. Livingston's Globe.	54	10c	45c	1.25	4.25	
1237. Winter Luxury.	46	5c	20c	50c	1.75	1705. Perfection.	54	10c	35c	1.00	3.50	
1245. Early Sugar or Pie.	46	5c	15c	40c	1.25	1710. Stone.	54	10c	35c	1.00	3.50	
<b>SEED POTATOES, See Page 47.</b>						1712. Trucker's Favorite.	54	10c	40c	1.15	4.00	
N. K. & Co.'s Extra Early Ohio.	47					1715. Ponderosa.	54	15c	60c	1.75	6.00	
Early Triumph.	48					1720. N. K. & Co.'s Early Minnesota.	54	10c	30c	85c	3.00	
Rural New Yorker.	48					1725. Chalk's Early Jewel.	54	10c	40c	1.15	4.00	
Pingree.	48					1728. June Pink.	54	10c	40c	1.15	4.00	
Rose.	48					1730. Spark's Earliana.	54	10c	45c	1.25	4.25	
Carman.	48					1732. Earliana, Select.	54	25c	1.50			
Burbank.	48					1734. Earliana, Private Stock.	54	75c	1.25	2.00		
Irish Cobbler.	49											
Early White Albino.	49					1733. John Baer.	54	10c	45c	1.35	4.50	
<b>POTATO EYES, See Page 49.</b>	49											
<b>RADISH</b>						<b>Small Fruited Tomatoes</b>						
<b>Early Round Radishes</b>						1735. Hush Tomato.	54	10c	35c	1.00	3.50	
1405. N. K. & Co.'s Sterl. Wh. Tip.	50	5c	20c	60c	2.00	1740. Peach.	54	10c	35c	1.00	3.50	
1410. Early Deep Scarlet or Non Plus Ultra Forcing.	50	5c	20c	50c	1.75	1745. Red Cherry.	54	10c	35c	1.00	3.50	
1418. Early Scarlet Globe.	50	5c	20c	60c	2.00	1750. Red Pear.	54	10c	35c	1.00	3.50	
1420. Early Scarlet Turnip, Wh. Tip.	50	5c	20c	50c	1.75	1755. Yellow Cherry.	54	10c	35c	1.00	3.50	
1425. Early White Box.	50	5c	15c	45c	1.50	1760. Yellow Pear.	54	10c	35c	1.00	3.50	
1430. Early White Turnip.	50	5c	15c	45c	1.50	1765. Yellow Plum.	54	10c	35c	1.00	3.50	
1435. Rosy Gem.	50	5c	20c	60c	2.00							
1440. Ruby Pearl.	50	5c	20c	60c	2.00							
1445. Sparkler.	50	5c	20c	60c	2.00							
1450. Triumph.	50	5c	25c	65c	2.25							
1455. Yellow Ball.	50	5c	20c	60c	2.00							
						<b>TURNIPS</b>						
						1770. N. K. & Co.'s Early White Model.	55	5c	20c	50c	1.75	
						1775. Cow Horn.	55	5c	20c	60c	2.00	
						1780. Early White Flat Dutch.	55	5c	20c	50c	1.75	
						1785. Extra Early Purple Top Milan.	55	5c	20c	60c	2.00	
						1790. Extra Early White Milan.	55	5c	20c	60c	2.00	
						1795. Golden Ball or Orange Jelly.	55	5c	20c	50c	1.75	
						1800. Purple Top, Strap-Leaved.	55	5c	15c	45c	1.50	
						1805. Purple Top White Globe.	55	5c	25c	65c	2.25	
						1810. White Egg.	55	5c	20c	60c	2.00	
						1815. White Globe.	55	5c	15c	45c	1.50	
						1816. Amber Globe Green Top.	55	5c	20c	50c	1.75	
						1817. Purple Top Yellow Aberdeen.	55	5c	20c	50c	1.75	
						<b>RUTA BAGA or SWEDISH TURNIP</b>						
						1900. N. K. & Co.'s Prizc Winner.	55	5c	25c	75c	2.50	
						1905. American Purple Top.	55	5c	25c	65c	2.25	
						1910. Carter's Hardy Swede.	55	5c	25c	65c	2.25	
						1915. Hurst's Monarch.	55	5c	25c	65c	2.25	
						1923. Sweet Russian.	55	5c	25c	65c	2.25	



Artichoke Roots.

## ARTICHOKE

### 5. Green Globe.

The seed may be sown indoors and plants potted same as the Tomato and set out in the garden on approach of warm weather; or the seed can be sown in hills outside, and thinned out to one plant in a hill. Plants should be set in rows three feet apart and two to three feet apart in the row. Grown for the unripe flower heads, which are highly esteemed by epicures. See page 9 for prices.

### Artichoke Roots.

Extremely valuable food for hogs. Every hog raiser should plant them. After one acre is planted their value will be so appreciated that larger areas will be devoted to them. They are not only very healthful, but as a fattening agent are excellent. They yeld very heavily, 300 to 350 bushels to the acre being realized on good soil. It is not necessary to dig them for, if given an opportunity, the hogs will help themselves.

Not only are they valuable for hogs, but are an excellent food for cattle, sheep and horses. Fed to milch cows, they are almost equal to bran for the production of milk because of their succulence.

Artichokes need planting but once and little or no culture after the first year. Cut as potatoes, only smaller; plant in rows three and one-half feet apart. Plow deep, plant shallow, say two inches. The second year, break up the ground as for corn; they will come up thickly all over the surface. Run through each way with a cultivator when a few inches high.

Those wishing to purchase should place orders very early, to be shipped as soon as favorable weather arrives. 150 lbs., sufficient for one acre. See page 9 for prices on Artichoke Roots.

## ASPARAGUS SEED

**Culture.** To start the Asparagus bed from seed, sow 1 oz. to 50 feet of row in early Spring, and transplant to permanent bed the next year as outlined above.

One pound of seed will produce about 3000 sprouts, and should be sown in a light, rich, sandy soil in rows about 15 inches apart and 1½ inches deep; sow thinly enough so the plants will not stand closer than 1½ or 2 inches and these should be thinned by hand afterwards, to about three inches apart, care being taken to leave the strongest and most thrifty shoots.

Careful weeding and hoeing are required throughout the growing season. Watering between the rows with liquid manure is of great assistance to the young plants.

### 10. Bonvallet's Giant.

The quickest yielding, (a year ahead of seed of other sorts) heaviest producing, finest quality and most disease-resisting of any variety, in color, white with purple tip. Market gardeners are discarding other well known sorts in favor of this variety. Prices for all quantities are listed on page 9.

### 15. Columbian Mammoth White.

Gives immense yield of clear white roots. A most distinct and valuable variety. The shoots remain white, without earthing or artificial blanching, as long as fit for use. See prices on page 9.

### 20. Conover's Colossal.

A standard sort, color deep green, quality first-class, spreads less than other sorts. Yields from 15 to 30 sprouts from a single plant. Refer to page 9 for prices.

### 22. French Giant Argenteuil.

A splendid, vigorous variety that grows very large, the stalks sometimes weighing four ounces each. This is a very prolific variety and forms the greater part of the fine bundles admired in the Paris markets. On page 9 prices are listed covering any quantity of this variety.

### 25. Palmetto.

Mammoth in size, light green, regular in growth and appearance. Unusually ready for market before other varieties. All Asparagus seed is priced on page 9.

## ASPARAGUS ROOTS

**Culture.** The easiest way to obtain an Asparagus bed, is to set out roots. It takes 3 years to secure one from seed, but with our large, strong roots a bearing bed is obtainable in 2 years.

Asparagus Roots thrive best in soil exceptionally rich and mellow and supplied with a liberal amount of humus. A simple way to start the Asparagus bed is to plow furrows 7 inches deep and 3 to 4 feet apart, according to the richness of the soil, then set the plants, which should be at least one year old, (two-year-old are better) in the trench, allowing 12 to 18 inches between them; spread the roots out well and cover with two inches of soil. After cultivation, gradually fill up the trench, eventually burying the crowns of the plants to a depth of 6 inches.

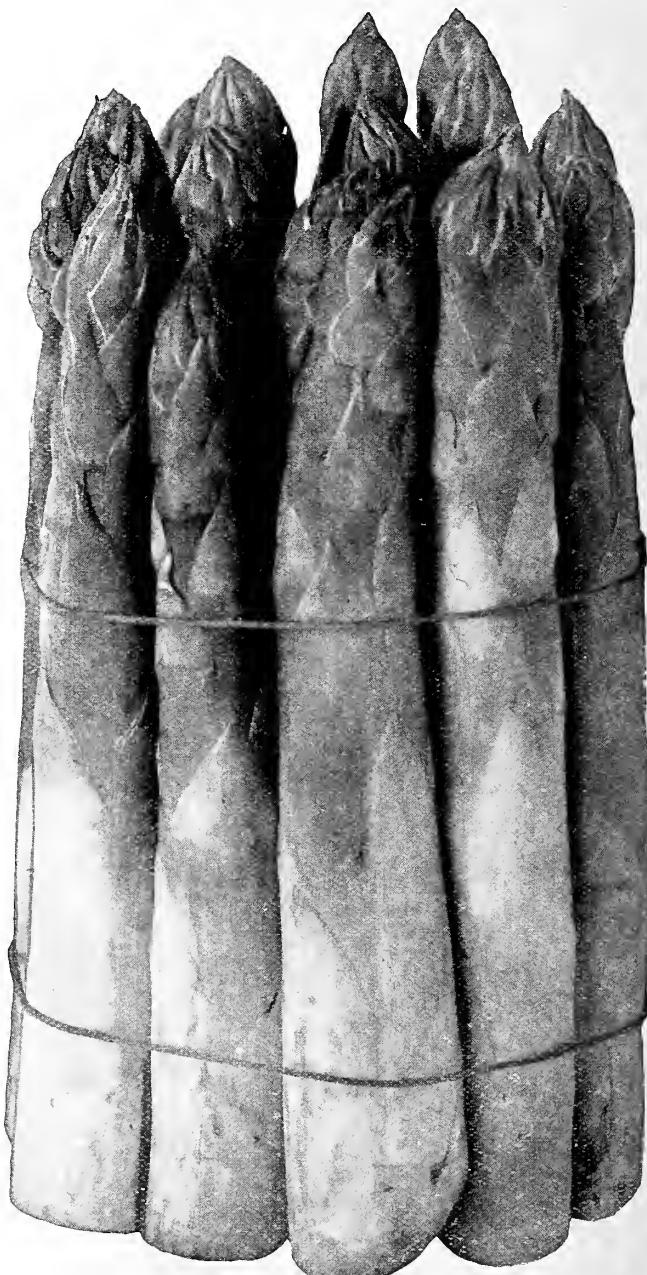
Cultivate shallow and frequently the first season and as soon as the stalks are dead in the Fall, remove them and cultivate the entire surface of the bed to a depth of 4 inches, then very early in the Spring to a depth of 3 inches and again the latter part of June, working into the soil at this time a liberal supply of decomposed stable manure.

**Barr's Mammoth.** Large, green stalks.  
**Bonvallet's Giant.** White, fine quality.  
**Columbian Mammoth** White.  
**Conover's Colossal.** Standard green.  
**French Giant Argenteuil.** Superb flavor.  
**Palmetto.** Mammoth light green.

Prices for Asparagus Roots are given on page 9. Have your dealer order these for you or send us direct if he will not supply them.

It is best to send Asparagus Roots by express by which method they will arrive in first class condition. We offer large, strong roots, which produce satisfactory results.

Roots are put up in bunches of 50 each.



Asparagus.

## BEANS

Prices for Beans in all quantities are listed on page 9. If interested in large lots ask for special quotation.

**Note.** The supply of Beans in all sections of the country is the shortest in many years due to unfavorable weather conditions, consequently the stock of most varieties is very limited.

**Culture.** Do not plant them until the ground becomes dry and warm.

Bush Beans may be planted about 2 inches deep in drills from 24 to 30 inches apart according to variety and soil, placing the seed 3 inches apart or 4 seeds in hills 24 inches apart each way; 2 lbs. per 100 foot drill.

Cultivation should be frequent until the plants begin to bloom, but only when the foliage is dry, for if disturbed when wet the vines will rust.

### DWARF WAX VARIETIES

**30. Currie's Rust Proof Black Wax.** A very early, beautiful wax Bean, bearing an abundance of crisp, tender, stringless pods, free from rust. It is of excellent quality, delicious flavor. Seed kidney-shaped. See prices on page 9.

**35. Davis Kidney Wax.** The most hardy and productive wax Bean. The pods are long, white, straight, crisp and tender. The vine is rustless and very vigorous, bearing the pods in clusters. Seed kidney-shaped and white. For canning this is unexcelled on account of the purity of the pod and Bean. Refer to page 9 for prices.

**40. Improved German Black Wax.** Vines medium sized, vigorous and hardy. Pods medium length, curved, cylindrical, fleshy, of a clear yellowish white. Remain for some time in condition for use. Seed small, black. See page 9 for price on any quantity.

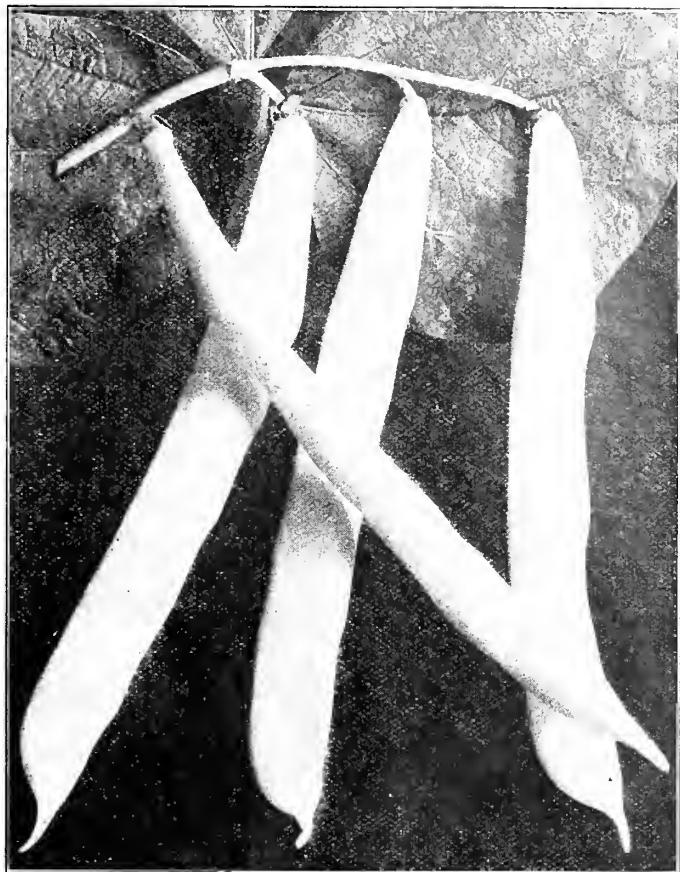
**42. Challenge Black Wax.** Early, pods tender and stringless, seeds black. This variety priced on page 9.

**44. Pencil Pod Black Wax.** Pods are long, pencil-like; very tender and brittle. In color they are rich, dark yellow. Prices given on page 9.

**45. Improved Golden Wax.** The plants are hardy and bear an abundance of straight, broad, flat pods. Resist rust to a marked degree. Seed white, with brown or black markings near the eye. See page 9 for price on any quantity.

**55. Wardwell's Kidney Wax.** The strong vines yield abundantly, long, nearly straight, broad, creamy white pods. They are of fine quality and a fine variety for the market gardener. Matures a little later than the Golden Wax. Seed large, kidney-shaped, white with dark markings about the eye. Turn to page 9 for all Bean prices.

**57. Refugee Wax.** A superior Bean for home use. Pods long, round and yellow; are thick meated, perfectly stringless; of excellent flavor. Note the prices on page 9.



Currie's Rust Proof Black Wax Beans.

### DWARF OR SNAP, GREEN POD VARIETIES

**60. Bountiful.** The plant is very handsome and of sturdy growth, being practically immune to rust and mildew. It is very hardy, early and prolific and continues in bearing for several weeks. The pods are of immense size, rich green, thick, broad, extra long, solid, meaty, rich, tender and entirely free from string. Priced on page 9.

**65. Black Valentine.** Pods are long, round and straight, very attractive in appearance and of good quality. See page 9 for prices.

**68. Dwarf Horticultural, or Bush Cranberry.** Very productive and compact in growth. Pods medium length, broad, thick, curved and splashed with red. Very desirable as a green shelled Bean, maturing early. Seed, large, oval, plump, splashed with bright red. Refer to prices on page 9.

**70. Extra Early Red Valentine.** (Round Pod.) Pods are usually ready to pick in about forty-three days from germination. Vine erect; pods, medium length, curved, cylindrical, with crease in back, very fleshy, crisp and tender; seed long, of medium size. All prices given on page 9.

**72. Longfellow.** A remarkably early variety, producing long, round, green pods, solid, fleshy, and exceedingly tender. The pods are very brittle and have no strings when broken, unless the pods are quite old. These Beans are extra early, the pods are ready to pick four days in advance of most other green podded bush Beans. List of prices on page 9.

**75. Long Yellow Six Weeks.** Early, productive and of excellent quality; pods often eight inches long; a popular variety. Turn to page 9 for prices.

**80. Refugee.** Late or 1000 to 1. Vine large, spreading, exceedingly hardy, very late, and for this reason used for late planting and for pickles. The pods are long, cylindrical, green and of good quality. Prices given on page 9.

**85. Stringless Green Pod.** The finest green pod, stringless of all green-podded sorts and produces large, handsome pods, some of which measure fully six inches in length. The plants are very productive, bearing profusely the beautiful green pods, which are perfectly round, straight, broad, tender, brittle, finest flavor, very fleshy and entirely stringless. All quantities priced on page 9.

**87. Improved Goddard or Boston Favorite.** A long flat-podded variety, used as a Snap Bean when young and as a Shell Bean when fully developed, being beautifully striped and splashed with bright crimson. All varieties of Beans are priced on page 9.

Opening prices are given on page 9, subject to later changes. The crop is very short and all customers are advised to purchase seed early to be sure of having the varieties they prefer.



Improved Golden Wax Beans.

## BEANS

**Culture.** Plant all varieties of Beans after danger of frost is past. Pole Beans require fertile soil. Plant six seeds 2 inches deep in hills around poles 8 feet high, set firmly in the ground.

The poles should be set about 3 feet apart each way and the seeds placed in the ground in a circle about 6 inches from the base of the pole. Cultivation same as for Bush Beans.

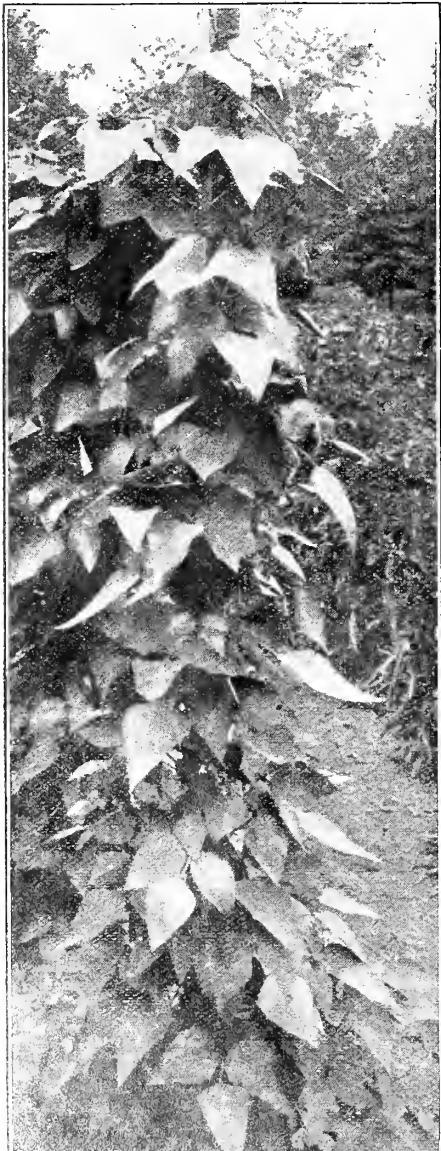
### POLE OR RUNNING VARIETIES.

**100. Kentucky Wonder.** (Old Homestead.) This climbing variety is very vigorous and productive and bears its pods in large clusters. The pods are green, very long, often being nine or ten inches, nearly round, stringless and very crisp when young, and so fleshy that they are greater in width than breadth. The seed is long, oval, dun-colored. This is one of the very best early Pole Snap Beans for the home garden or market. The supply of seed is limited and purchases should be made early. See prices for all quantities, on page 9.

**102. Kentucky Wonder Wax.** This vigorous wax podded Pole Bean is very similar to the green podded Kentucky Wonder but the pods are a little broader. They are fleshy and stringless as snaps and are of excellent quality. The pods are very long, handsome light yellow. Its earliness and hardiness commend it for northern latitudes. See page 9 for prices.

### 90. Big Profit Pole Bean.

The Big Profit Bean is fully two weeks earlier than any Pole Lima. The Beans are large, thick and luscious, and are borne four or five in a pod. The vines are strong and thrifty, cling tightly to poles and bear abundantly, the pods hanging in bunches or clusters. No Lima Bean can surpass the Big Profit in quality, it has the same rich, buttery flavor, always desired but seldom found. Gardeners will make no mistake in testing this new, extra early Bean. All prices are listed on page 9.



Kentucky Wonder Pole Beans.

### 95. Golden Cluster Wax.

The vines are large, vigorous, and hardy; pods six to eight inches long, borne in clusters; color, yellow to white; broad, thick, fleshy and of the very best quality. Seed, oval, dull white in color. Prices for this variety are given on page 9.

**98. Horticultural Pole,** or Speckled Cranberry. Vines vigorous with large, light colored leaves. Pods short, broad, green, streaked with bright red. Beans are large, round, splashed and spotted with red. Of very fine quality, either as a green Shelled Bean or dry. The best late Shell Bean for both home and market. Note the prices on page 9.

**105. King of the Garden Lima.** The vines are very vigorous and prolific. Pods are of large size, filled with four or five large Beans of very fine quality. The Beans are easily shelled and of handsome appearance. A favorite with market gardeners. Turn to page 9 for prices.

**107. Large Green Seeded Pole Lima.** This new variety is sometimes called the "most perfect Pole Lima" on account of several very distinctive features. The vines are strong and vigorous, and produce a great number of pods. The pods are usually filled with four large broad Beans, having a more nearly perfect shape, than any other Pole Lima. Especially valued for canning purposes. Prices for all quantities of this seed are listed on page 9.

**110. Large White Lima.** Vine tall, growing vigorous but slender; leaves medium sized, smooth, light green; pods borne in clusters; are long, broad, very thin, dark green; seed large, flat, greenish-white. Refer to the prices given on page 9 for all varieties.

**115. Lazy Wife.** So named on account of the large number of pods it affords, making it easy to obtain a supply. One of the best varieties for snaps of the late green-podded Pole Beans. The pods grow in large clusters, are five to seven inches long, broad, thick, fleshy, and entirely stringless. They have a rich, buttery flavor. The dry Beans, which are white, are fine for Winter use. See page 9 for prices.

**120. Scarlet Runner.** Ornamental and useful. The vine is graceful; flowers are of a brilliant scarlet, and the Beans are of an excellent quality, either when shelled or in a dry state. Prices on page 9.

**122. White Dutch Runner.** Identical with Scarlet Runner Bean except in color of blossom, which is white. Very rapid in growth. All Beans priced on page 9.

**125. White Creaseback.** A fine, early, green-podded, Pole Bean of rapid growth and very productive. The pods grow in clusters and are from five to six inches in length, perfectly round and deeply creased. They are very fleshy, stringless and of the best quality. The Beans are white and are excellent shelled. See prices, page 9.

### DWARF OR BUSH LIMA VARIETIES.

No garden is complete without Dwarf Limas. Lima Beans weigh 56 lbs. per bushel.

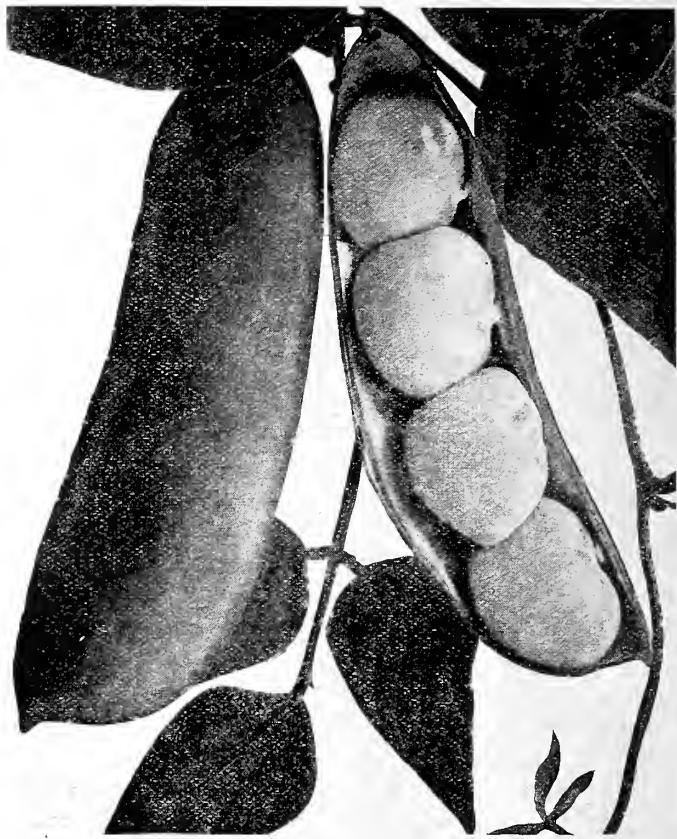
**130. Burpee's.** The bushes are 18 to 20 inches high, of stout, erect growth, branch freely, forming large circular plants from two to three feet in diameter, very prolific, bearing large, beautiful pods well filled with large Beans of the same size and delicious flavor as the pole variety. All varieties of Dwarf Lima Beans are priced on page 9.

**135. Dreer's.** The pods are short but thick, containing three to four very thick, short Beans, closely packed. This variety is later than Burpee's but the plants are very productive and the Beans are easily shelled and of delicious flavor. The vines are not erect, but trail over the ground about three feet. See page 9 for prices.

**140. Henderson's or Sieva.** Grows erect to a height of 18 to 20 inches and requires no support. Very early and productive. The Beans have the true Lima flavor, rich, buttery and tender. These are two weeks earlier than most Pole Limas. For prices refer to page 9.

**145. New Wonder Bush Lima.** Of more bushy character than other varieties, the pods being borne nearer the stalk. It is very productive and in quality and flavor is unsurpassed. Try this Bean. Turn to page 9 for price in any quantity.

Prices on Beans are prepaid only on packets and quarter pound lots. Postage rates on page one.



Burpee's Bush Lima Beans.

## FIELD BEANS

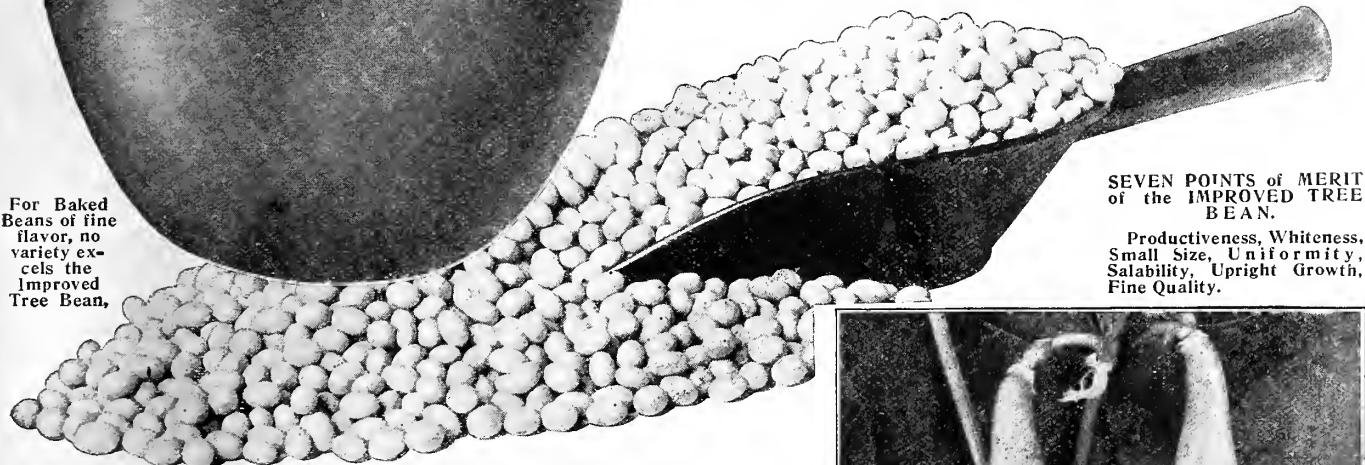
## 150. Improved Tree Bean.

## A Wonderful, Productive, White Field Bean.

This is without question the heaviest yielding Bean known.

It is not a garden variety, but belongs to the class of field Beans, the seed of which resembles the well known "Navy" Bean. On account of its snowy whiteness and its uniformly small size, the Improved Tree Bean commands the highest price in all markets. Our seed is carefully selected and is pure stock, which is seldom found in Navy Beans. Mixed stock always sells at from 25 to 50 per cent less than straight stock. A few cents extra expended on the seed means many dollars in the crop. The plants grow upright and bear the pods well up from the ground, thus keeping them away from the soil and making them more easily gathered. This variety is giving the best of satisfaction to our customers as is evidenced by the many letters of commendation which we have received. Thirty pounds of Improved Tree Beans will plant an acre.

Beans have a high protein content and great food value, forming an excellent substitute for meat. On account of their condensed nutrient value they have been used extensively for army food. The Improved Tree Bean is one of the best for canning. See prices on page 9.



## SEVEN POINTS of MERIT of the IMPROVED TREE BEAN.

Productiveness, Whiteness, Small Size, Uniformity, Salability, Upright Growth, Fine Quality.

**155. Brown or Swedish.** There is a large call for these Beans and although we have given them small space, have sold large quantities. It is a fine field variety and the demand is usually good and the price high. The Beans are brown in color, medium size and excellent for cooking. See page 9 for prices. Ask for prices in large quantities.

**160. Choice Navy.** Our stock of this well known variety has been carefully selected and cleaned and will be found far superior to Beans commonly offered as "Navy Stock." Prices given on page 9.

**162. White Tepary Bean.** A white shell Bean more prolific than the Navy. This is a native of the arid Southwest and is well adapted to a dry climate; it is quick maturing and will endure drought better than other varieties. It cooks tender and the flavor is delicious. Tepary Beans are immune to common Bean diseases. Plant 12 lbs. per acre. Note the prices on page 9.

**165. Red Kidney.** A very fine variety for baking. Refer to page 9 for prices.

**170. Boston Yellow Eye.** Almost every one who has lived in New England knows the Boston Yellow Eye Bean. While much larger quantities of white Beans of the Navy type are used than of all other varieties combined, those who know about the Boston Yellow Eye prefer them to any other Bean for cooking, as they possess a richness and flavor known to no other variety. As a shell Bean they have no superior, and for cooking in a dry state, no equal. Any surplus one may grow above requirements may be easily sold at from \$1 to \$2 a bushel above the price of any white Beans, when their superior quality is known. We strongly recommend the planting of the Boston Yellow Eye. Once used, they are always wanted. Crop very short. See opening prices on page 9.

**Cultivation.** Next in importance to pure seed is the selection of the soil in which they are to grow. It is true that Beans thrive on most all soils but better results are gained by the liberal use of fertilizer or planting in light, rich, well drained loam. Beans are extremely sensitive to frost and moisture. It is useless to plant them before all danger of frost is past and the ground is warm. Sow the seed in drills 30 inches apart and four to eight inches apart in the row. They should be frequently cultivated up to the time of blossoming, but this should never be done when the ground or plants are wet with rain or dew, as it will be sure to injure them. If disturbed while in bloom, it will prevent their setting well.

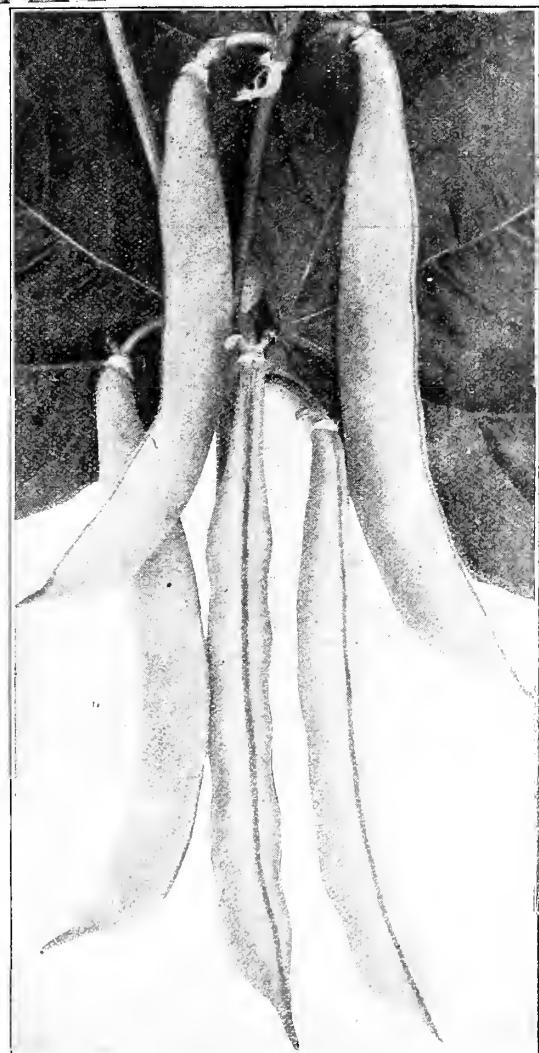
Plant 30 to 35 lbs. per acre, with grain drill.

**Marketing.** After the Beans are harvested and threshed, run them through a fanning mill to take out all the broken Beans, pods and stems. Hand picking will add considerably to their value, taking out all dark or discolored Beans. If a canning factory be near, they will gladly pay a premium for clean, uniform seed. It is frequently desirable to ship the Beans to a reliable commission house in the larger cities, or if that is not convenient, the country merchant will be willing to handle them for you.

The raising of Beans will reward the grower on account of the price to be realized.

**Order Early.** It will be a great convenience, both to our customers and to ourselves if seed orders are sent us early. We aim to fill orders the same day received, but during the rush season this is not always possible. Early orders, also, are filled from the choice of our stocks—thus the double advantage of ordering as soon after receipt of this catalogue as possible.

Please note prices on Beans are prepaid only on packets and quarter pound lots. Postage rates on larger quantities given on page one.



Stringless Green Pod Beans. See page 13.

Ask for prices on Beans in quantity when you are ready to buy.

## BEET

**Culture.** Sow seed one inch deep in rows 15 to 24 inches apart in fertile, well pulverized soil, using 5 to 6 lbs. seed per acre. An ounce will sow 50 feet of drill. Cultivation should begin almost before the Beets are up and continue until the plants shade the ground. When a few inches high, thin to six or eight inches apart in the row.

**175. Northrup, King & Co.'s Sterling.** Sold only in Sealed Packages. In this Beet we offer our customers a decided novelty. It is as early as Eclipse, perfectly globe-shaped, with a single tap root, and of the richest color of any of the Beets.

It is a splendid keeper, is not excelled in yielding qualities by any other sort, is exceedingly tender, fine and sweet and is unequalled for table use.

Market gardeners will find our Sterling a very profitable variety to grow, as no other sort approaches it in attractiveness. Exposed on the market by the side of other Beets, it at once catches the eye of the customer and completely dwarfs in appearance all other sorts. For prices see page 9.

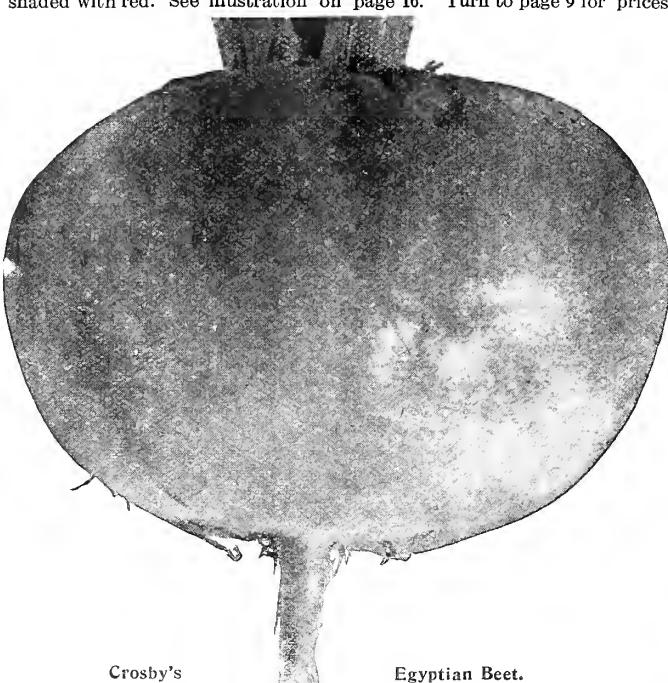
**180. Northrup, King & Co.'s Market Gardener's.** (Sold only in sealed packages.) This is the ideal Beet for market gardeners and the home garden. It is very symmetrical, with small tap root and but few fibrous roots; color outside is deep blood red; inside, layers of blood red and light red alternately.

When cooked they are a beautiful dark red throughout, fine grained and unsurpassed in quality. It continues to grow until late in the Fall, attaining a large size and making a good selling and eating Beet for Winter. One sowing only is necessary to produce early Beets for market and main crop for winter use. All quantities priced on page 9.

**185. Crimson Globe.** A very handsome variety of medium size, nearly globe-shaped, free from rootlets, leaving the surface smooth. The flesh is a rich, blood red of the best quality, sweet and tender, never stringy. See page 9 for prices.

**190. Crosby's Egyptian.** An improvement on Extra Early Egyptian, being as early, but of more desirable shape, color and quality. It is very sweet and tender; a most valuable sort for early market as it is ready before any other Beet of equal quality. Note the prices on page 9.

**195. Detroit Dark Red.** Roots globular; smooth with small tops; skin blood red; flesh dark red, zoned with a lighter shade; tender and sweet. This is a splendid variety for canning. The tops are upright in growth; the leaves are dark green shaded with red. See illustration on page 16. Turn to page 9 for prices.



Crosby's

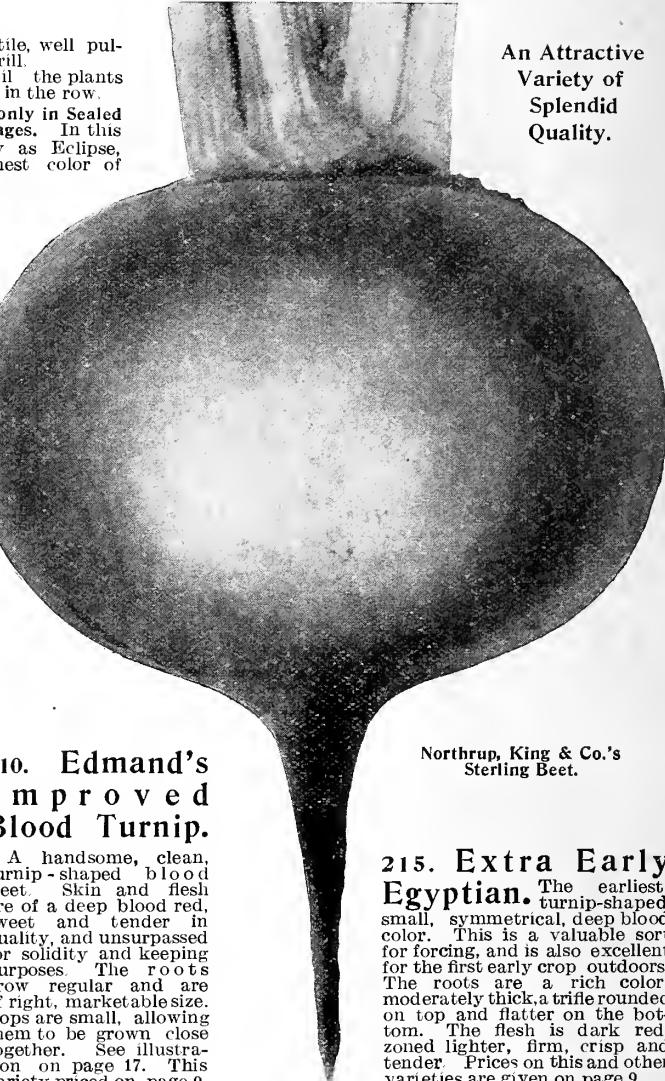
Egyptian Beet.

**200. Early Blood Turnip.** Roots turnip-shaped, deep crimson, tender and sweet. This is an excellent market and home garden sort for Summer and Autumn use, a very good cropper. Refer to page 9 for prices.

**202. Early Model.** A splendid variety for table use. It is medium early in maturity, being ready a few days before Crimson Globe. The roots of Early Model are of nice size and grow uniformly perfect, nearly globe-shaped with a slim, smooth tap-root. Leaves are small, colored dark crimson. The color and quality are excellent, flesh being tender, sweet, rich deep crimson and fine flavor. Makes a splendid selling Beet on account of its fine appearance. Packet, ounce, and pound prices are listed on page 9.

**205. Eclipse.** Makes rapid growth, top small, quality fine, larger than Egyptian, but not as deep a red in color. This is an especially desirable sort for the home garden and bunching. The roots are smooth and round with a small tap root and collar. The flesh is very sweet, crisp and tender, especially when young. See page 9 for prices on all varieties of Beets.

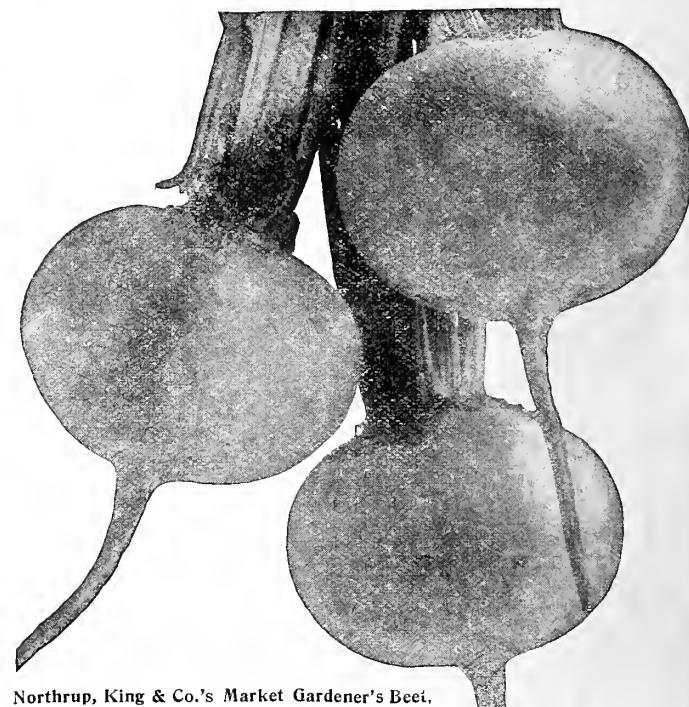
**Fertilizers.** For Beets of quality you must have a mellow, fertile soil. Use our Sterling Fertilizer to supply the necessary plant foods for this crop. See page 109 for description and prices.



Northrup, King &amp; Co.'s Sterling Beet.

## 210. Edmand's Improved Blood Turnip.

A handsome, clean, turnip-shaped blood Beet. Skin and flesh are of a deep blood red, sweet and tender in quality, and unsurpassed for solidity and keeping purposes. The roots grow regular and are of right, marketable size. Tops are small, allowing them to be grown close together. See illustration on page 17. This variety priced on page 9.



Northrup, King &amp; Co.'s Market Gardener's Beet.

An Attractive Variety of Splendid Quality.

## 215. Extra Early Egyptian.

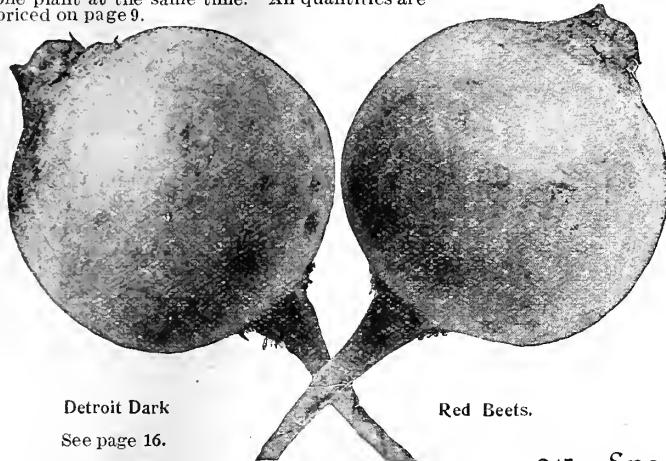
The earliest turnip-shaped small, symmetrical, deep blood color. This is a valuable sort for forcing, and is also excellent for the first early crop outdoors. The roots are a rich color, moderately thick, a trifle rounded on top and flatter on the bottom. The flesh is dark red, zoned lighter, firm, crisp and tender. Prices on this and other varieties are given on page 9.

## BEET

**225. Half Long Blood.** This is rapidly becoming a very popular sort and will probably produce more bushels from a given area than any other sort, as it does not occupy so much space in the row as the turnip-shaped varieties. For prices see page 9.

**230. Improved Long Blood.** One of the best and most popular table Beets, especially for autumn and winter use. Our seed has been grown from selected roots, and we can recommend it as a superior stock. Prices are quoted on page 9.

**235. Swiss Chard or Spinach Beet.** This variety does not produce an edible root like the regular garden Beet, but is highly esteemed for the broad, white leaf stalks and midribs which are cooked and served in the same manner as asparagus, making a most delicious vegetable. The leaves are also cooked like spinach and considered equally palatable. Two distinct dishes may thus be grown from one plant at the same time. All quantities are priced on page 9.



Detroit Dark

See page 16.

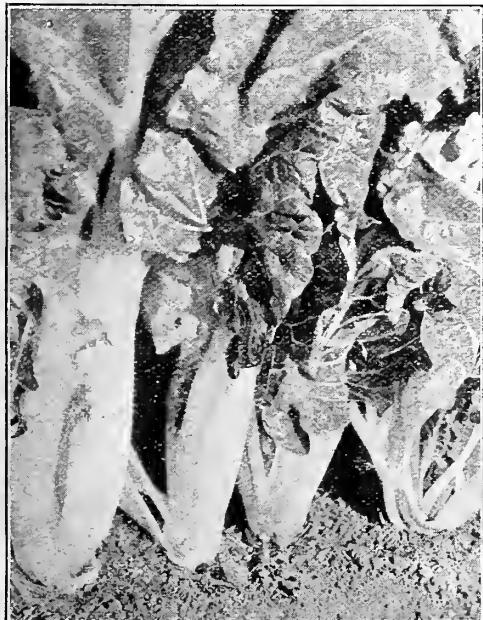
Red Beets.

### 238. Giant Lucullus Swiss Chard.

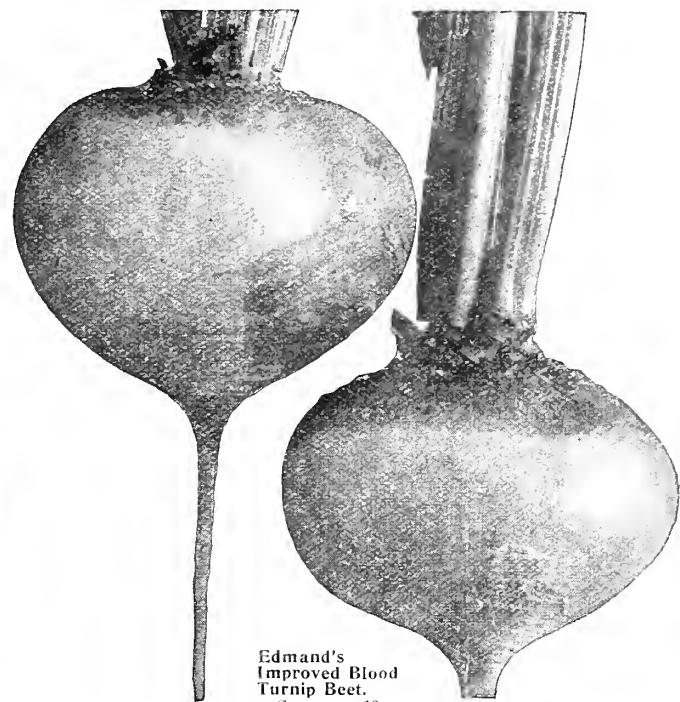
The largest and best variety of Swiss Chard. Seed sown early in the Spring will produce plants quickly from which the thick light-colored midribs of the leaves may be cut down to the ground. New growth will quickly succeed it which may in turn be gathered. If the plants are allowed to grow on, an abundance of large curly leaves may be obtained, which make most excellent greens. No garden is complete without Swiss Chard, and the grower will be amply rewarded by giving it at least a small space. It is also splendid for poultry as a green feed or pasture. The birds like it and it grows up quickly. Prices are named on page 9.

All seeds and other items listed in this catalogue may be secured from the best merchants in nearly all towns throughout the Northwest.

Notice. All vegetable and flower seeds sent prepaid except where noted.



Swiss Chard.

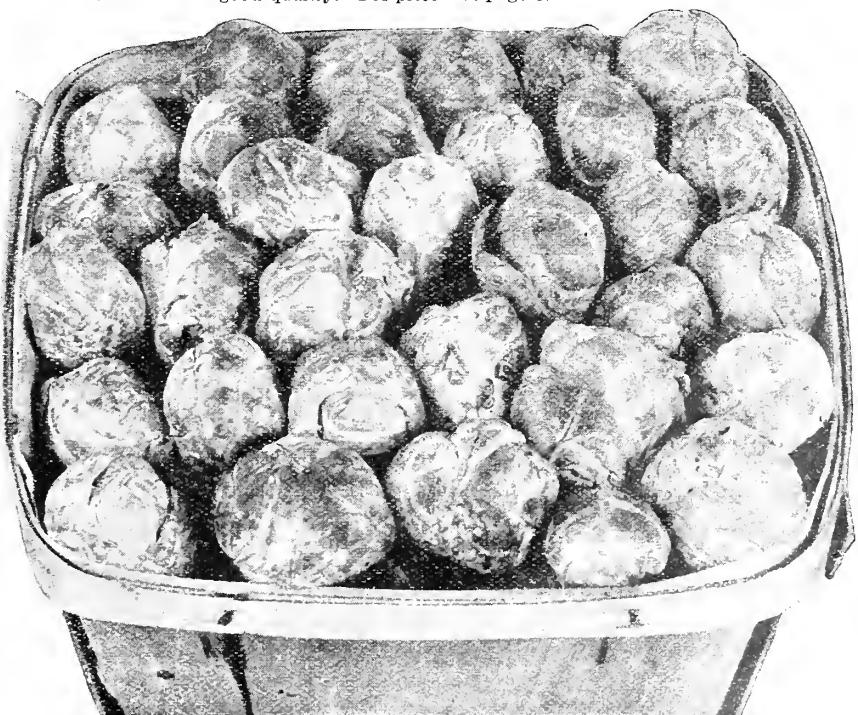


Edmand's  
Improved Blood  
Turnip Beet.  
See page 16

## BROCCOLI

### 245. Snow White.

Culture same as for late cauliflower. Forms heads very much like a cauliflower, but is much harder, and gives excellent results in cool localities. It is not so valuable as the cauliflower in warm or dry climates, nor of such good quality. For prices see page 9.



## BRUSSELS SPROUTS

Brussels Sprouts are highly valued in all European countries, but are not generally appreciated here. Thousands and thousands of native born Americans have never tried them and do not know what palatable and nutritious vegetables they are. They should be in every garden.

Culture same as for early or late cabbage, depending on whether an early or late crop is desired, with the exception that the seed should be sown a few days earlier and when the plants are planted out they should be set 15 in. apart in rows 2 ft. apart. 1 oz. will sow 200 ft. of drill.

**240. Improved Dwarf.** The stem, which usually grows from 20 inches to 2 feet in height, is covered with "miniature cabbages" which may be boiled like cabbage or cooked in cream like cauliflower. They are by all means the most delicious and delicately flavored of the cabbage family. On this variety the heads grow very closely and their quality is the finest. For prices see page 9.

**242. Dalkeith or Perfection.** Plants are of dwarf growth and stems are thickly set with large, solid sprouts. This variety is very hardy and even during quite severe weather, the plants maintain their sprouts; in fact the flavor and quality is much improved by frost. Prices are named on page 9.

# SUGAR BEETS

## For Sugar Making.

Sugar Beets are now extensively grown in many sections of the country where Sugar Beet factories are located. The large yield per acre and the price secured for the crop make them very valuable. Sugar Beets may also be used for stock feeding as they contain 12 to 15 per cent of sugar in addition to other nutrients. Sugar Beets are ripe and in condition to harvest when the lower leaves begin to take on a yellow tinge and droop. Beet tops make an excellent food for cows, sheep and other live stock. This is also true of the pulp from the factory. A large Sugar Beet factory in Montana, having an immense output, grows in connection with their Sugar Beets a large acreage of alfalfa. They then buy up thousands of sheep and make a practice of feeding them for the market on the combination of Beet pulp and alfalfa, and the results are very remunerative.

**282. Jaensch's Victrix.** Undoubtedly the most highly developed variety for sugar making. Roots of medium size, white skin with tinge of gray, half long and

very uniform in size and shape. Flesh white and very rich in sugar. For prices see page 9.

**285. Vilmorin=Elite.** This Beet is the result of thirty-five years of methodical and persevering selection. In black soils rich in organic matter, it gives results equal to any other variety. Its average yield may be stated as from 12 to 16 tons an acre. Prices on all quantities on page 9.

**290. Klein Wanzlebener=Elite.** This variety at the present time has probably a wider cultivation than any other Sugar Beet. It may be distinguished from the Vilmorin by its brighter color and its lighter colored leaves, which are beautifully undulating, and scalloped about the edges. While not, as a rule, equal to the Vilmorin in saccharine richness, it is considerably more productive. Prices on packets and larger amounts are listed on page 9.

## For Stock Feeding.

The ground should be thoroughly prepared and made firm and mellow, same as for Mangels. Seeding and cultivation should be continued in much the same manner except that they should be thinned out 6 to 8 inches in the row. The Giant Feeding Sugar Beets or Half Sugar Mangels are especially valuable for feeding stock as they give a feed of much greater nutritive value than Mangels.

### 275. Giant Feeding Sugar Beet or Half Sugar White Mangel.

This magnificent Sugar Beet while giving nearly as large a yield of easily grown and harvested roots as a crop of Mangels, supplies a food of very much higher nutritive value, the roots for feeding purposes being really more valuable, pound for pound, than those of the very best strains of Sugar Beet, and the yield under equally favorable conditions is more than double. The roots grow partly out of the ground and because of this and their shape the crop can be harvested and stored at less expense than any other root crop. We are certain that every one who plants this variety and grows it with care will be much pleased. Every farmer should try it. Values are listed on page 9.

### 277. Royal Giant Sugar Beet or Half Sugar Rose Mangel.

Very similar to Giant Feeding Sugar Beet except in color. The skin is bright rose above ground and white below. Flesh white, sometimes tinged with rose. Roots grow half out of the ground and are thus easily harvested. See page 9 for prices.

### 280. Sugar Beet for Stock Feeding.

We can furnish ordinary seed of Sugar Beet which will give a large yield and tonnage. On page 9, all prices are given.

## Seeding and Cultivation.

As in the case of Mangel; the best seed obtainable, regardless of the price, is the cheapest in the end. Sugar Beet seed is not a high priced article and the expense of seeding an acre of land is very small when compared to the value of the crop. A maximum yield of 15 to 20 tons an acre is possible with the best seed, while lower priced seed may produce barely enough to pay the cost of cultivation and handling.

The time of plaiting should be determined by the condition of the soil, the locality and season. Sandy soil becomes warm and dry much earlier than heavy clay loam. Tillage also has a tendency to increase the warmth in the soil. Do not plant Sugar Beets until the soil is warm enough to germinate corn. When oak leaves burst their buds, corn and beets may be planted with safety. Be liberal with the seed in order to secure a good, uniform stand of plants. A surplus is much more desirable than thin seeding. It often happens that a crust is formed on the surface which a scant seeding will not break through in the plants' effort singly, to reach sunlight, but collectively they will aid each other in breaking the surface. The depth of planting must also be determined by local conditions of the soil, season, etc. Deep planting should be avoided because it often prevents germination when shallow planting, say one-half to one inch, will produce satisfactory results. The distance between rows will depend somewhat on the soil and methods of cultivation employed. Rows 18 inches apart will produce the largest returns in yield, but these cannot be cultivated with a horse. Hand labor is expensive; therefore, we advise planting 20 to 24 inches between rows, using a 4 to 6-row planter for the purpose.

Cultivation should commence immediately after planting by following the rows indicated by the press wheel. Before the plants appear, cross rows with a light hand weeder, made by driving ten-penny nails through a board, and used as a harrow, which will break the surface crust and maintain an earth mulch to prevent the escape of soil moisture. This process may be repeated two or three times with excellent results.

# MANGEL WURZEL

## For Stock Feeding.

Because of the great scarcity of seed this season, it is more important than ever that reliable seed only be sown. It is well to consider the source of your seed and the integrity of the firm behind it.

**Culture.** Sow 6 pounds to the acre in May or June, in rows three feet apart, and thin to nine inches in the row. Cultivate frequently with horse tools.

### 250. Northrup, King & Co.'s Improved Mammoth Long Red Mangel.

(Sold only in sealed bags.)

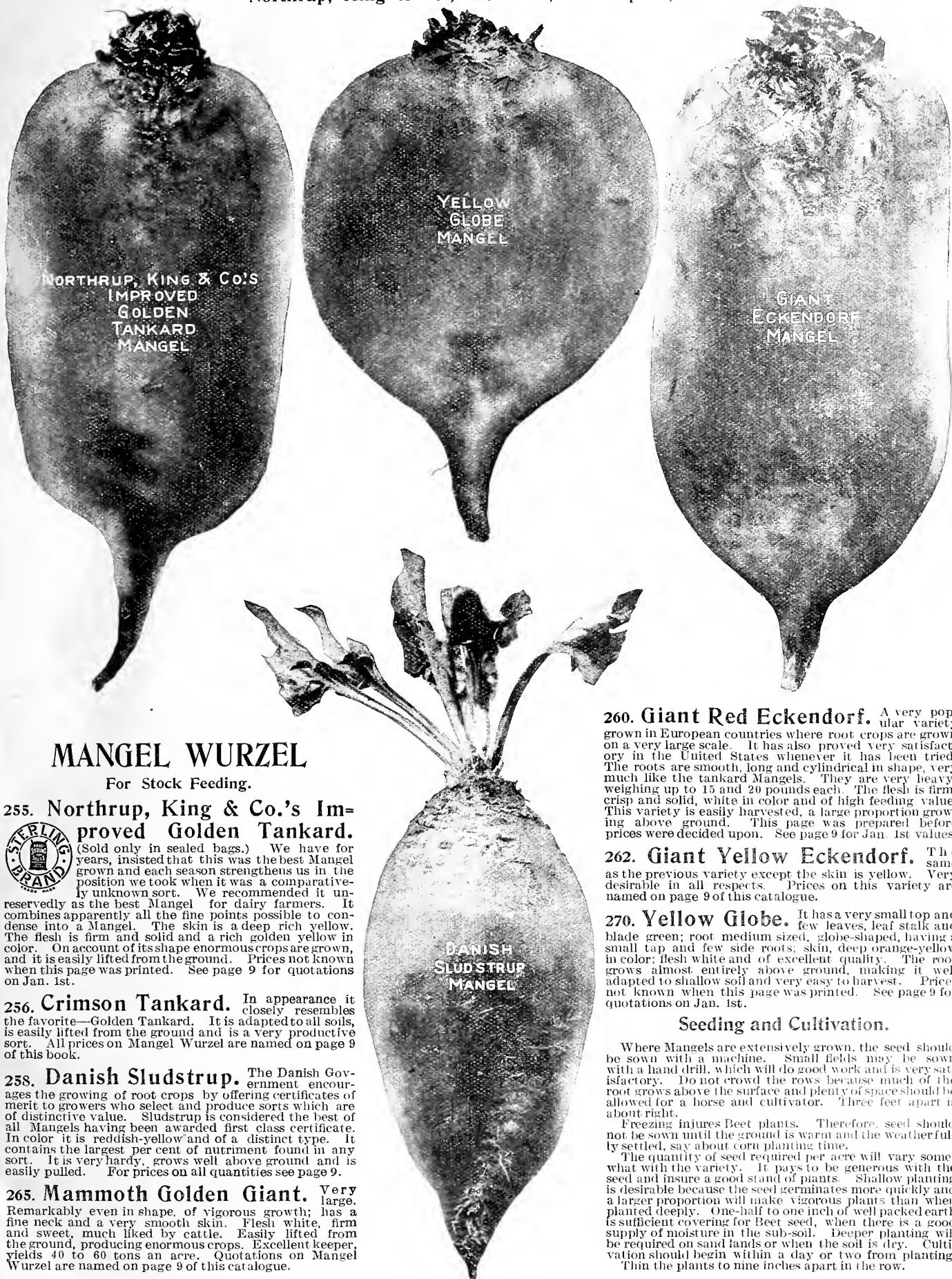
Farmers and stock raisers of the United States do not appreciate so fully the value of Mangels for feeding cattle, hogs, sheep, etc. as do the farmers of Europe. In France, Great Britain and other European countries, it is the exception rather than the rule where Mangels are not grown on a large scale on every farm. The immense yield which may be secured from an acre, with very little expense, either for material or labor, makes the Mangel crop one of the most profitable on the farm. 15 to 20 tons of roots an acre is not an unusual yield; some specimens weigh 20 to 30 lbs. each. Where properly cultivated, seeded and harvested the cost of growing a bushel of our Improved Mammoth Long Red Mangel should not exceed 10c. When fed in combination with grain they are worth almost as much, pound for pound, as the grain. This statement may seem absurd, but experience has proved that Mangels so aid digestion and assimilation, by keeping the animals in a healthy condition, that they increase the feeding value of other feeds consumed, beside the nutrients the roots contain.

Our stock of Improved Mammoth Long Red Mangel is a selection and the roots are very large, uniformly straight and well formed; color, deep red; roots, straight; tops, small.

Every farmer ought to put in at least an acre of Mangels this coming season, 5 or 10 acres will be much better. Prices on different quantities named on page 9.



Sugar Beets and Mangel Wurzels form a very succulent feed for cattle during the winter months.



## MANGEL WURZEL

For Stock Feeding.

### 255. Northrup, King & Co.'s Improved Golden Tankard.

(Sold only in sealed bags.) We have for years, insisted that this was the best Mangel grown and each season strengthens us in the position we took when it was a comparatively unknown sort. We recommended it unreservedly as the best Mangel for dairy farmers. It combines apparently all the fine points possible to condense into a Mangel. The skin is a deep rich yellow. The flesh is firm and solid and a rich golden yellow in color. On account of its shape enormous crops are grown, and it is easily lifted from the ground. Prices not known when this page was printed. See page 9 for quotations on Jan. 1st.

**256. Crimson Tankard.** In appearance it closely resembles the favorite—Golden Tankard. It is adapted to all soils, is easily lifted from the ground and is a very productive sort. All prices on Mangel Wurzel are named on page 9 of this book.

**258. Danish Sludstrup.** The Danish Government encourages the growing of root crops by offering certificates of merit to growers who select and produce sorts which are of distinctive value. Sludstrup is considered the best of all Mangels having been awarded first class certificate. In color it is reddish-yellow and of a distinct type. It contains the largest per cent of nutrient found in any sort. It is very hardy, grows well above ground and is easily pulled. For prices on all quantities see page 9.

**265. Mammoth Golden Giant.** Very large. Remarkably even in shape, of vigorous growth; has a fine neck and a very smooth skin. Flesh white, firm and sweet, much liked by cattle. Easily lifted from the ground, producing enormous crops. Excellent keeper, yields 40 to 60 tons an acre. Quotations on Mangel Wurzel are named on page 9 of this catalogue.

**260. Giant Red Eckendorf.** A very popular variety grown in European countries where root crops are grown on a very large scale. It has also proved very satisfactory in the United States whenever it has been tried. The roots are smooth, long and cylindrical in shape, very much like the tankard Mangels. They are very heavy, weighing up to 15 and 20 pounds each. The flesh is firm, crisp and solid, white in color and of high feeding value. This variety is easily harvested, a large proportion growing above ground. This page was prepared before prices were decided upon. See page 9 for Jan. 1st values.

**262. Giant Yellow Eckendorf.** The same as the previous variety except the skin is yellow. Very desirable in all respects. Prices on this variety are named on page 9 of this catalogue.

**270. Yellow Globe.** It has a very small top and few leaves, leaf stalk and blade green; root medium sized, globe-shaped, having a small tap and few side roots; skin, deep orange-yellow in color; flesh white and of excellent quality. The root grows almost entirely above ground, making it well adapted to shallow soil and very easy to harvest. Prices not known when this page was printed. See page 9 for quotations on Jan. 1st.

### Seeding and Cultivation.

Where Mangels are extensively grown, the seed should be sown with a machine. Small fields may be sown with a hand drill, which will do good work and is very satisfactory. Do not crowd the rows because much of the root grows above the surface and plenty of space should be allowed for a horse and cultivator. Three feet apart is about right.

Freezing injures Beet plants. Therefore, seed should not be sown until the ground is warm and the weather fully settled, say about corn planting time.

The quantity of seed required per acre will vary somewhat with the variety. It pays to be generous with the seed and insure a good stand of plants. Shallow planting is desirable because the seed germinates more quickly and a larger proportion will make vigorous plants than when planted deeply. One-half to one inch of well packed earth is sufficient covering for Beet seed, when there is a good supply of moisture in the sub-soil. Deeper planting will be required on sand lands or when the soil is dry. Cultivation should begin within a day or two from planting. Thin the plants to nine inches apart in the row.

# CABBAGE

## ARRANGED IN ORDER OF EARLINESS.

**Culture for Early Cabbage.** Seed of the early varieties should be sown  $\frac{3}{4}$  of an inch deep in a greenhouse, hot-bed, or in boxes in the house, about 6 weeks before the plants are needed for planting out.

If, when the second leaves appear, the plants can be transplanted, spacing them 3 inches apart, better and more hardy plants will be obtained.

As soon as the soil can be worked in the Spring the plants should be removed to the open field and set in rows 2 feet apart each way. Cultivate occasionally to keep out weeds and preserve the moisture in the soil until the plants shade the ground. One-half lb. seed will produce plants for one acre. See page 22.

**Culture for Late Cabbage.** The seed may be sown in rows 1 foot apart or broadcast in the garden, about the middle of May, and the plants set in the field the latter part of June, or it may be planted in hills 30 inches apart, 4 to 5 seeds to the hill, in the field where the cabbages are to grow, thinning to one plant in a hill when the plants are 3 to 4 inches high.

Cultivation must begin as soon as the plants are set in the field, or as soon as seed sown in the field is up and continued as long as it is possible to get through them with a horse cultivator without injury to the plants.

Where the seed is sown in the field, whether it be in rows or in hills, it should be covered with  $\frac{3}{4}$  of an inch of soil and this soil firmed well to insure rapid germination. One-half lb. seed sown in a bed will produce plants for one acre.

### 295. Northrup, King & Co.'s Washington Wakefield Cabbage.

"First in Head, First in Market, First in the Hearts of Gardeners."

Sold only in Sealed Packages.

We introduced this remarkable Cabbage twenty-two years ago. It met with so hearty a reception from every one who grew it that it seemed as though every one who tried it must have written to make known his satisfaction. Every year we receive a great many letters of praise and congratulation regarding the Washington Wakefield Cabbage. No other Cabbage of which we have knowledge has aroused such enthusiasm among Cabbage growers as has our Washington Wakefield. It has the same general characteristics of other Wakefield Cabbages, the heads being conical with a rounded or blunt point. It is however, far superior to other strains of Wakefield Cabbage, being nearly double the size and of better quality, and at the same time is fully as early. It has few outer leaves, permitting close planting, so that more heads can be grown to the acre than with other sorts. Prices on all quantities are listed on page 9.

**325. Early Jersey Wakefield.** Heads are very hard, compact, solid and conical in shape. Few outside leaves. We do not admit that our stock has any superior, except Northrup, King & Co.'s Washington Wakefield Cabbage. See page 9 for prices.

**310. Charleston Wakefield.** Very similar to the Jersey Wakefield, but a few days later and half as large again. Not quite as pointed as the Jersey. Prices on page 9.

**345. Express.** A very early variety forming small oval heads, with round, thick leaves. The head is a little thicker, less pointed and slightly later than the Early Jersey Wakefield. A fine shipping sort. Cost of seed given on page 9.



**340. Early Winnigstadt.** Very early. The leaves are dark green and very tightly folded, making it the hardest of any early Cabbage. This variety seems to suffer less from the Cabbage worm than most other sorts. Heads are regular, conical and keep well both Summer and Winter. Our seed has been especially selected. See prices in small and large lots, page 9.

**342. Early York.** A very early variety. Heads, small, heart-shaped, firm and tender. May be planted 15 to 18 inches apart. Prices listed on page 9.

**298. Copenhagen Market.** A new early variety, which will be very popular with market gardeners. It is the finest large, round-headed, early Cabbage in cultivation. It is further desirable on account of the remarkable characteristic of maturing the heads all at the same time, enabling the grower to gather his crop with less expense and permitting the cleaning of the land at the first cutting. The heads average about ten pounds each in weight, are hard and solid with small core. The quality is extra fine and sweet. It matures as early as the Wakefields and will yield more to the acre in weight. It is a short stemmed variety, the heads nearly resting on the ground. The leaves are light green, rather small, saucer-shaped and tightly folded, making it possible to set them close together in the field. Note the prices given on page 9.

**299. Glory of Enkhuizen.** A variety of recent introduction from Holland. It is a valuable sort on account of its earliness, large size and fine keeping quality. The heads are of nice size for market, weighing about 9 to 11 pounds each, globe-shaped and handsome dark green in color. For an early sort, the heads are unusually firm and solid. The leaves are fine ribbed, tender and of excellent quality. The outer leaves set close, permitting planting of more heads to the acre, thus increasing the yield. This is not only valuable as an early variety, but as it grows large it may be profitably raised for the fall main crop. See page 9 for prices.

**305. Allhead Early.** Earlier than any other large Cabbage, larger than any other early Cabbage. Heads deep, flat, solid, uniform and very tender owing to their rapid growth. An all-the-year-round Cabbage. We consider this one of the best second-early sorts on our list. All Cabbage seed values shown on page 9.

**330. Early Spring.** A flat heading sort which has become popular on account of its earliness. The head is very solid and shapely, and as it forms quickly, may be marketed at a very early stage of its growth, enabling the grower to realize fancy prices. The quality is excellent, tender and of fine flavor. Current price quotations on page 9.

**335. Early Summer.** Deservedly popular with market gardeners throughout the country. It forms large, solid, round, flattened, compact heads of excellent quality, tender and sweet. The heads average over double the size of the Jersey Wakefield, weighing eight to ten pounds each, while it matures only ten or twelve days later. Note the price, page 9.

**385. All Seasons.** A grand variety. We can safely recommend the All Seasons Cabbage as one of the best and surest Cabbages to grow. It is a little later than Early Summer, but very much larger, (about double the size) and for the market gardener one of the most useful, marketable and profitable Cabbages to grow. It is perhaps the safest variety for the amateur to plant as it does well at all seasons and is a very sure cropper. The heads are dark blue in color and being tender and fine keeping are excellent for fall and winter use as well as during the Summer. Turn to page 9 for all prices.

**360. Succession.** About a week later than Early Summer, but much larger, measuring about twelve inches in diameter and weighing about ten to twelve pounds each. The heads are hard and solid and of fine quality. Very fine for either winter or summer use. One of the surest varieties to make a crop under all conditions. Prices on page 9.

**365. Surehead.** Heads are large, round, flattened, uniform, very hard, firm and sweet, and average from ten to fifteen lbs. each. Certain to head, a good shipper and a fine keeper. See page 9 for prices.

**347. Fottler's Improved Brunswick.** An ideal second early variety of the drumhead type. Very desirable for the home garden on account of its dwarf compact growth and few outer leaves. Head large, flat, solid and of excellent quality. Prices given on page 9.



Northrup, King & Co.'s Premium Late Flat Dutch Cabbage.

## CABBAGE

### 300. Northrup, King & Co.'s Discovery.

**Sold only in Sealed Packages.**

This valuable Cabbage fills a very distinct field as the earliest flat heading sort. Truckers generally prefer flat heading Cabbages to the pointed sorts, but up to this time, none have been developed that are as early as the Wakefields. Our Discovery Cabbage is as early as the Wakefields, in fact it might properly be termed a Flat Wakefield, for it has the thick, heavy leaves of the Wakefields. Here, however, the resemblance ceases as the head is distinctly flat and of compact growth. This enables the grower to plant closely, and he can secure a large crop from an acre because it is so reliable about heading. The heads are, as a rule, quite as large as those of the Early Spring, and enough earlier in our judgment to make it more profitable to gardeners, besides being, we think, less subject to disease. Prices, all quantities, listed on page 9.

### 370. Northrup, King & Co.'s Harvest Home.

**(Sold only in sealed packages).** We have yet to see the Cabbage of equal quality that will yield as large a weight from a given area as the Harvest Home. Fifteen tons an acre is not an unusual yield and greater results have been attained under favorable conditions. We have yet to see the Cabbage that will equal it in reliability of heading, uniformity of size and solidity of head. We reluctantly recommend it to any one desiring the best Cabbage for fall and winter keeping or kraut making. Packet, ounce, and pound prices on page 9.

### 375. Northrup, King & Co.'s Premium Late Flat Dutch.

**(Sold only in sealed packages.)** A low growing variety, heads large, bluish-green, round, solid, broad and flat on top; an excellent fall and winter variety, and a good keeper. It is a sure header. Our stock has been grown from carefully selected heads, and we consider it superior to any other strain of Flat Dutch Cabbage on the market. See page 9 for prices.

### 380. Late Flat Dutch.

(Regular Strain). Prices on page 9.

### 350. Large Late Drumhead.

Grows a very large, solid head often reaching a weight of twenty to thirty pounds. There is little outer foliage, the leaves all folding in closely about the head. A fine winter variety. Note the prices, page 9.

### 400. The Volga.

The quickest growing, large late variety. Uniform in growth, head hard and solid. It is two or three weeks earlier than other large kinds. The plant is nearly all head having few outside leaves. The heads are nearly as round as a ball and as hard and solid as Danish Ballhead, while they are much larger and heavier, often weighing 15 lbs. each.

The quality of this Cabbage is very fine both for cooking and for kraut. It will keep perfectly all Winter if kept cool.

If the plants are set out early they will head in July and August and can be used as a summer and fall variety. We are sure this Cabbage will prove a most profitable one to all who raise it. The plants are so compact that they can be set out 1½x3 ft. and will produce enormous crops on good, rich land and fair crops on land that would not produce a ton to the acre of some other varieties. Prices for Volga Cabbage Seed on page 9.

### 401. Autumn King.

Large solid heads, similar to Flat Dutch, with ruffled outer leaves. Needs long growing season. Prices given on page 9 for all quantities.



Early Summer Cabbage.

**358. Early Dwarf Blood Red.** Earlier than Rock Red, but not quite so large. The heads are hard, keep well and are of excellent quality. In color they are deep blood red and are considered fine for pickling. Red Cabbage prices quoted on page 9.

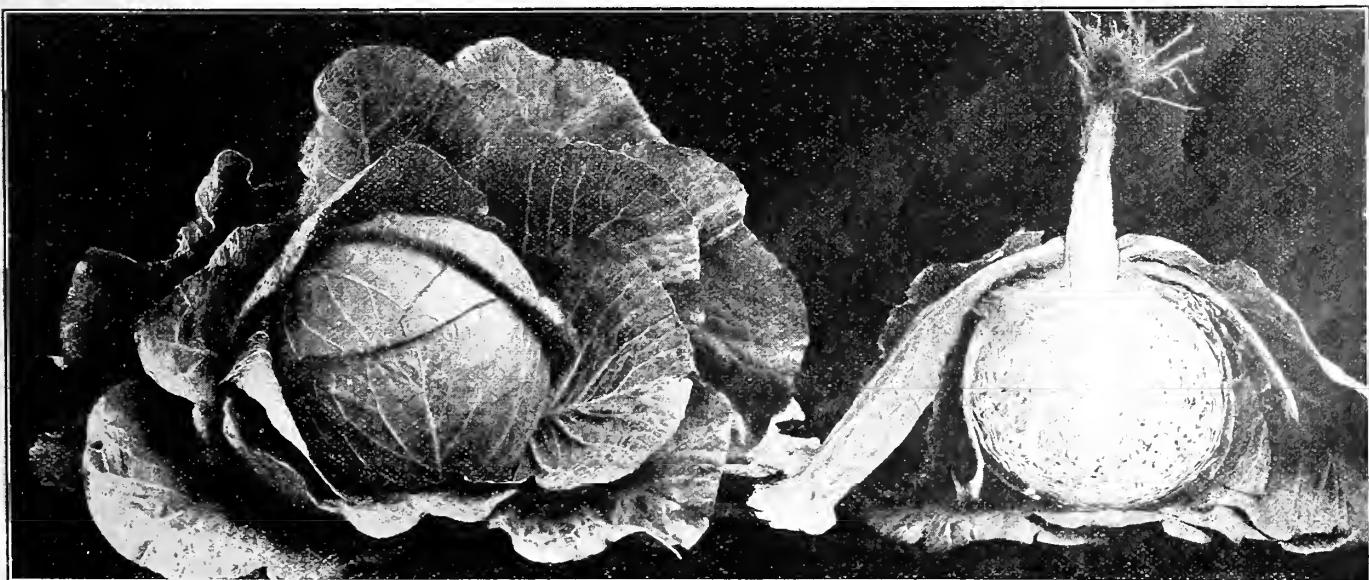
**355. Rock Red.** The best, largest and surest heading red Cabbage. Used mostly for pickling. The plant is large, with several spreading leaves. The head is large, round, very solid and of deep red color, averaging from ten to twelve pounds in weight. See page 9 for prices.

### 348. Improved American Drumhead Savoy.

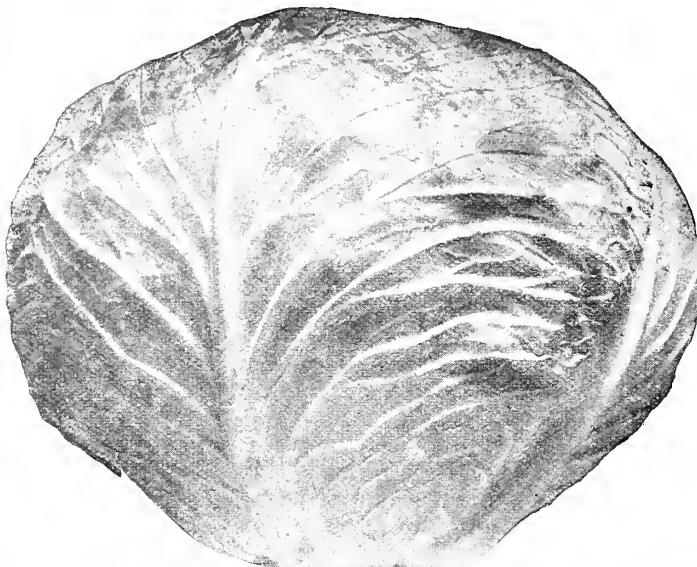
The best variety of Savoy or crumpled leaf Cabbage. The plant is vigorous, with short stem, has densely crumpled leaves and when touched by frost is sweet, delicate and delicious. The head is large and very solid. Prices given on page 9, any quantity.

### 349. Celery or Chinese Cabbage.

**Pe Tsai.** Improved Chinese Cabbage. It is very easily grown and does well in nearly all parts of the country. It should be grown like a late Cabbage, planting in July, as early plantings run quickly to seed. The seed is sown in drills 16 to 20 inches apart and the seedlings trimmed two or three times. The full grown plant somewhat resembles a Cos Lettuce in appearance. It has a mild flavor and may be eaten raw or cooked. Boiled and seasoned with butter, it is especially delectable. Price quotations listed on page 9.



Heads of Copenhagen Market Cabbage. Note the Solidity of the Cross Section. Description on page 20.



A Field and Specimen Head of Northrup, King & Co.'s Holland Cabbage.

#### Culture and Value of the Cabbage Crop.

**Soil.** For information in regard to raising the plants, see page 20. Any good Corn soil will grow Cabbage if enriched well with barnyard manure which can be plowed under in the Fall or applied as a top dressing in the Winter or Spring. As soon as field is dry in the Spring, start the disc and keep it going at weekly intervals up to transplanting time. This will result in a field clean from foul weeds.

**Treatment of Plants.** Plants should be lifted with some soil on roots. Dip them in water, keeping the tops dry, and place in shade, roots down for two days. This hardens the plants and starts the second growth of roots.

**Transplanting.** Have rows 3 feet apart and plants 20 inches apart in row. Set with a trowel so that plants slope a trifle towards the North. Plant at least 8000 plants to the acre. If planted too far apart Cabbage grows too large for the commercial market.

**Cultivation.** Start using a fine tooth cultivator immediately after plants start to grow. Keep it up every 4 or 6 days until the Cabbages are large.

**Harvesting.** A large sharp knife or hatchet may be used for the purpose. An average crop of Cabbage is 12 to 15 tons per acre.

**Value of Crop.** A 12 ton crop would mean about 3000 to 4000 Cabbages. At a price of 5c each the returns per acre would be \$150 to \$200. After deducting the cost of the plants, fertilizer and labor this will certainly leave a handsome profit for the grower. Whether it is best to sell the Crop in the Fall or hold until Spring will depend upon the variety of Cabbage grown, storage facilities and the market.

## CABBAGE

### 390. Northrup, King & Co.'s Holland.

#### Danish Grown Stock.

Most remarkable late Cabbage yet produced, heads hard and solid—fine grained and tender. Entirely distinct in color. Very finest short stemmed type.

(Sold only in sealed packages.) In some important particulars this is the most remarkable Cabbage yet produced. In fact, it well illustrates the truth that "merit will win," in that while it was introduced only a few years ago, it has already become the favorite sort with those who have had the true stock.

This is a very hardy variety and a sure leader, extra solid and firm. The heads are of medium size and average about 8 pounds in weight; they are the heaviest for the size of head ever introduced. They stand shipment better than other late sorts. In quality they have no superior not only for immediate use, but even when kept until Spring, they come out as firm and sound as when put away; in the springtime no Cabbage will outsell them.

The plants are vigorous and hardy; our strain produces short stems and deep heads, as shown in the illustration. The leaves are rather upright in habit, large, thick and smooth with a distinct color.

Holland Cabbage is unsurpassed for shipping to distant points or late Spring use. There is no question as to the value of this Cabbage, the only point is where to obtain the best seed. We offer in limited quantities genuine Danish Grown Stock which was grown especially for us in Denmark. Repeated trials have proved the merit of this strain. Seed prices listed on page 9.

### 315. Danish Ballhead.

#### Favorite for Winter Market.

This winter variety is especially desired on account of its great solidity and its keeping qualities. It is now one of the most largely grown varieties for the winter market in this country. The heads weigh more than other sorts of equal size. They are round as a ball, solid, fine grained, with few outside leaves; crisp tender and sweet, and unsurpassed for boiling, slaw, sauerkraut, etc. This variety has been selected and perfected for over fifty years by the Danish gardeners, who prize it so highly that they grow it almost exclusively for Winter Cabbage and annually export large quantities of it. It grows well on all soils and under most conditions, notwithstanding hot, dry weather, and does not rot in wet seasons. Prices quoted on page 9.

### 320. Danish Roundhead.

#### Very Vigorous, Splendid Quality.

An earlier, shorter stemmed, improved strain of the Danish Ballhead Cabbage. The heads are hard, very solid and mature about two weeks before the Ballhead, averaging a little larger and heavier.

The inner leaves are blanched almost pure white, are of sweet flavor, crisp and tender. It is less liable to blight and shows vigorous growth even in the hot Summer. See page 9 for prices.

### 405. Long Keeping.

#### Extra Hardy Sort.

As the name indicates, this variety is a good keeper, and it is also superior as a main crop. It will stand drought and frost to a remarkable degree. Heads are uniform, large, firm and solid, and of very superior flavor; color dark green, with few outside leaves. If placed in a dry, cool cellar or pit, they will keep in excellent condition until well along in the following Summer.

In many large Cabbage growing localities this variety is grown for Winter storage to the almost total exclusion of all others. Present prices for all quantities are shown on page 9.

**Booklet on Cabbage Culture.** A concise, up-to-date, pocket treatise on growing of Cabbage, including soil preparation, sowing seed, cultivation, harvesting, storing and sale. Of value to every grower of Cabbage. It will be sent free with orders, if requested, or will be sent by mail, postpaid, for 5c in stamps.



Danish Roundhead Cabbage.

## CARROT

**Culture.** For the best results the soil should be well worked to a good depth. For early use sow seed in rows 15 inches apart as early in the Spring as the soil can be worked, sowing about 4 lbs. of seed per acre and cover the same with  $\frac{1}{2}$  inch of soil; but for main crop, sow about corn planting time, using 3 lbs. of seed per acre and the seed should be covered with nearly an inch of soil. One ounce of seed will sow 100 feet of drill. Make the rows two feet apart to allow for horse cultivation. Keep free from weeds and cultivate occasionally until the roots are large enough for table use and if grown for commercial purposes they may be cultivated with profit throughout the season.

When the plants are 3 inches high thin to 3 inches apart in the row.

**410. Northrup, King & Co.'s Chantenay.** (STERLING BRAND) (Sold only in sealed packages.) As a table variety it is first-class; in shape it is larger than the Scarlet Horn, and also broader at the shoulder. The flesh is of a beautiful, rich orange color and of the finest quality; it is medium early, with small tops. Roots taper slightly, but are uniformly stump rooted. Gives great satisfaction in both the market and private garden. For Carrot seed prices, see page 9.

**415. Chantenay.** Regular Stock. Same as is ordinarily sold for Chantenay Carrot. This has not been as highly selected as our Market Gardener's stock, but will give good satisfaction. Note the prices, page 9.

**420. Early French Forcing.** variety, largely grown for forcing purposes; globular-shaped root of an orange red color. See page 9 for prices in packets or larger quantities.

**425. Early Scarlet or Short Horn.**

One of the most popular varieties grown; color deep orange; flesh fine grained and of agreeable flavor; tops small; has a short, stump shaped root; Grows well in shallow soil; one of the best for early out-door planting and for table use. Seed priced on page 9, all quantities.



Improved Danvers  
Half Long.

**Rooted.** Tops of medium size; roots cylindrical, smooth, bright orange; flesh orange, becoming yellow in center, but with no distinct core. Of the finest quality and one of the most symmetrical and handsome of the medium sized sorts; excellent for the market or home garden. Sold at prices listed on page 9.

**445. Oxheart or Guerande.** This fine and very popular Carrot is intermediate as to length between the half-long varieties (such as Danvers) and the Scarlet Horn Carrots, but is much thicker than the latter, being at the top from four to five inches in diameter. Flesh bright orange, fine grained and sweet. It is of very fine quality for table use and equally good for stock. Where other sorts require digging, Oxheart can be easily pulled, making it a particularly desirable sort for soils so stiff and hard that other sorts do not grow well. See page 9 for prices on any desired quantity.

"Handbook for the Garden" is the title of a new booklet which includes information on preparing and fertilizing the soil for garden crops, how to make hot-beds and cold frames, transplanting, watering and cultural directions for all vegetable and flower seeds. In it are found also hints on growing roses and shrubs and tables showing quantities of vegetable seeds to sow in a given length of row and per acre. This booklet will be included with your order if requested or will be mailed free to any address. It contains much valuable information in small space.

**Market Gardener's Stock.**  
(Sold only in sealed



packets.)

As a table variety it is first-class; in shape it is larger than the Scarlet Horn, and also broader at the shoulder. The flesh is of a beautiful, rich orange color and of the finest quality; it is medium early, with small tops. Roots taper slightly, but are uniformly stump rooted. Gives great satisfaction in both the market and private garden. For Carrot seed prices, see page 9.

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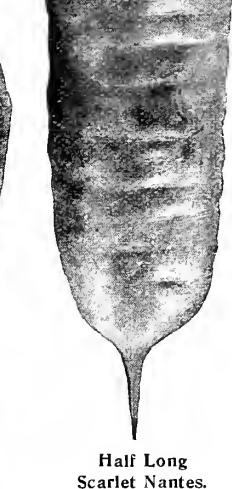


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Half Long  
Scarlet Nantes.

**430. Improved Danvers Half Long.**

Our strain of this popular Carrot, while not as "stump rooted" as the Chantenay, has a root which comes to a blunt point, a very beautiful Carrot. A first-class Carrot for all soils; in form midway between the Long Orange and the Short Horn. The root is of a rich, dark orange color; it is very smooth and heavy yielding, twenty to thirty tons per acre not being an unusual crop. Prices for large or small lots, are quoted on page 9.



**Rooted.** Tops of medium size; roots cylindrical, smooth, bright orange; flesh orange, becoming yellow in center, but with no distinct core. Of the finest quality and one of the most symmetrical and handsome of the medium sized sorts; excellent for the market or home garden. Sold at prices listed on page 9.

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Improved  
Long  
Orange

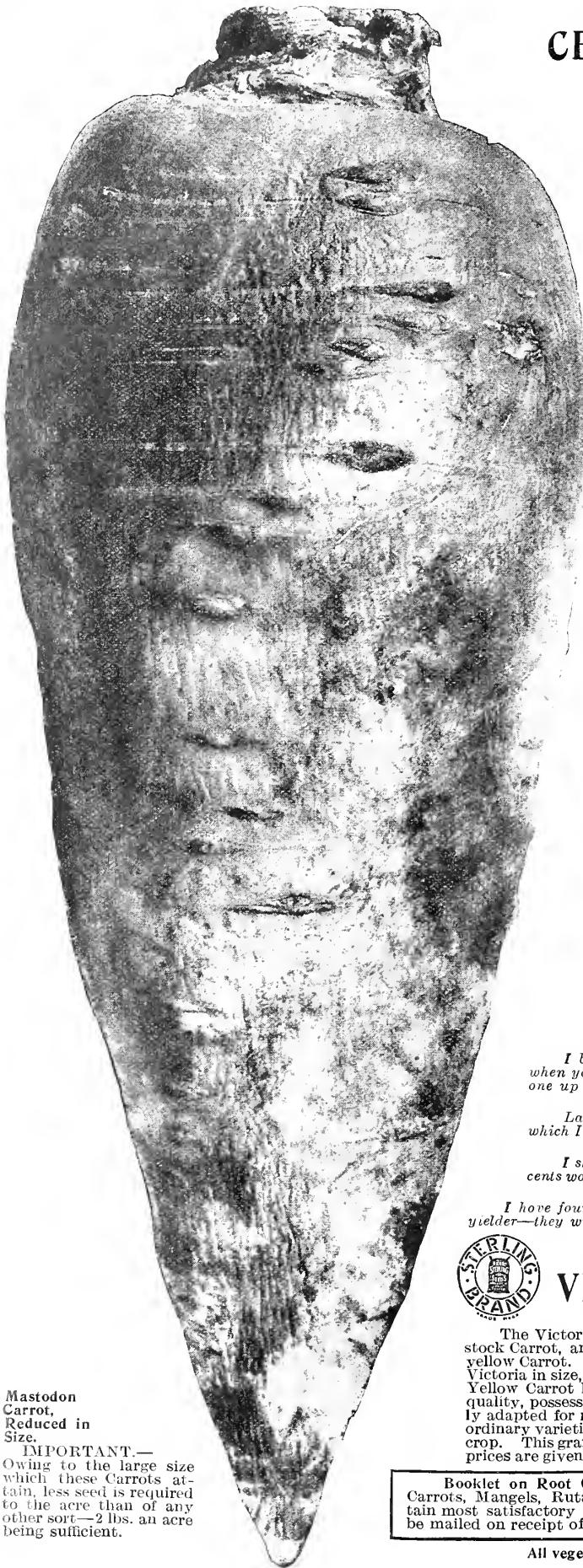
For home use and early bunching Oxheart, Chantenay and Nantes are the best; for general crop the Danvers Half Long, while for feeding stock the Mastodon yields the largest crops.



Oxheart Guerande.



James Intermediate.



Mastodon  
Carrot,  
Reduced in  
Size.

IMPORTANT.—  
Owing to the large size  
which these Carrots at-  
tain, less seed is required  
to the acre than of any  
other sort—2 lbs. an acre  
being sufficient.

## 450. Northrup, King & Co.'s CELEBRATED MASTODON CARROT

For Feeding Stock.

Sold only in Sealed Packages.



If you are a farmer we want to urge upon you just one thing. It is this—try our Mastodon Carrot. There may be room for difference of opinion regarding many varieties of seeds, but there cannot be room for difference of opinion as to which is the best stock Carrot.

Northrup, King & Co.'s Mastodon Carrot is not, properly speaking, a table Carrot, although the flesh is remarkably firm and sweet. It is not a Carrot for the market gardener, but it is emphatically the Carrot for the farmer, and once used, nothing else will take its place.

Northrup, King & Co.'s Mastodon Carrot is the heaviest cropping Carrot grown, yielding more tons to the acre than any other sort. The flesh is white, crisp and solid and very sweet in flavor. It is a vast improvement on the white and green Belgian sorts which have been favorites in the past, as it is not only much more productive but vastly easier to handle. The roots are short and very heavy at the shoulder, rendering them easily harvested. An important feature, also, is that they do not easily break in pulling or sorting. Too much can scarcely be said of their size and great productiveness. The roots frequently measure 15 to 20 inches in circumference, and 18 to 40 tons to the acre is not an extravagant statement as to yield. Prices for all quantities are quoted on page 9.



18 bu. Mastodon Carrots Raised from a 10 cent Package of Seed.

### 18 Bu. for 10 Cents.

I send you a picture showing 18 bushels of your Mastodon Carrots raised from a 10 cent package of seed. Many of the roots weigh over 4 pounds.

F. F. FARRAR, Minn.

### Thought You Were Fooling.

I bought some of your Mastodon Carrots last year thinking that you were fooling when you said in your catalogue that they would weigh 5 lbs., but I was surprised to pull one up which weighed 7 lbs. 3 oz.

CARL ANDERSON, Minn.

### 92 Bushels for 25 Cents.

Last year we raised 92 bushels of Mastodon Carrots from 25 cents worth of seed, which I think was an extra good yield.

L. J. JOHNSON, Wis.

### 115 Bushels for 35 Cents.

I shall want some more of your Mastodon Carrot seed. I raised 115 bushels from 35 cents worth of seed.

F. C. SQUIRES, N. Y.

2000 Bushels an Acre.

AUGUST STOLPER, Wis.

## 455. Northrup, King & Co.'s VICTORIA CARROT FOR STOCK

Sold only in Sealed Packages.

The Victoria is a very large and a very rich stock Carrot. There can be only one best stock Carrot, and we think our Mastodon is that Carrot, yet there are many who prefer a yellow Carrot. We can say to such that there is no yellow Carrot which can approach the Victoria in size, in yield and in feeding qualities. It is the largest and best form of Orange or Yellow Carrot known. The roots are remarkably fine, very symmetrical and of excellent quality, possessing high feeding properties. It is a heavy cropper on all soils, but is especially adapted for rich, strong land. It grows nearly half as much weight again an acre as the ordinary varieties, and as the roots grow more above the ground it is much easier to gather the crop. This grand variety is sure to suit every one who grows it. Packet, ounce, and pound prices are given on page 9. By express or freight at purchaser's expense.

Booklet on Root Crops. A small, pocket edition giving in concise form information on Stock Carrots, Mangels, Rutabaga and other roots. Tells how to grow, store and feed them to obtain most satisfactory returns. This booklet will be sent free with orders when requested or will be mailed on receipt of 5c in stamps.

# CAULIFLOWER

**Culture.** For early use, seed should be sown  $\frac{3}{4}$  of an inch deep in a greenhouse, hot-bed or in boxes in the house, about 6 weeks before the plants are needed for planting out.

If, when the second leaves appear, the plants can be transplanted, spacing them 3 inches apart, better and more hardy plants will be obtained.

As soon as the soil can be worked in the Spring the plants should be removed to the open field and set in rows 2 feet apart each way. Cultivate occasionally to keep out weeds and preserve the moisture in the soil until the plants shade the ground.

For late use sow seed in beds about May 10th and when the plants are large enough remove to the garden, setting them from 2 to  $2\frac{1}{2}$  feet each way.

Cultivation must begin as soon as the plants are set in the field, and continued as long as it is possible to get through them with a horse cultivator without doing injury to the plants.

As soon as the heads begin to form, tie the leaves together over the head to keep out the light; by this process nice white heads are obtained.

One ounce of seed will produce about 1000 plants.

## 460. Northrup, King & Co.'s Model

Sold only in Sealed Packages.

In competition with all other strains the Model Cauliflower has won the approval of critical gardeners, being the earliest and best sort grown. It is suitable not only for early use, but is superior for late planting.

The heads are hard and solid and do not spread as do some of the inferior sorts. No other equals it in purity of color, being clear snow white. It is equally desirable for family use and for the market garden. The heads are large—from 9 to 12 inches in diameter, and weigh from 4 to 8 pounds. On account of its close growing, compact habit many more plants may be grown on a given area than of the late spreading sorts. Prices for Cauliflower seed in all quantities are given on page 10.

## 465. Northrup, King & Co.'s Drought Resisting.

(Sold only in sealed packages.) Especially adapted to dry locations, where it will produce large, solid heads when all other sorts would fail. To secure the best heads the soil must be rich and thoroughly cultivated. Present values of this seed are quoted on page 10.



Northrup, King & Co.'s Model Cauliflower.

**470. Snowball.** Forms snow white heads six to ten inches in diameter, of good quality. Its close growing habit permits more heads to a given area than the later maturing sorts. Excellent both for early and late planting. Grown from stock seed obtained from originators. Equal to any strain of "Snowball" on the market. See page 10 for prices.

**475. Extra Early Dwarf Erfurt.** The finest strain procurable. Plants dwarf and compact, forming good sized heads, very fine stock. Prices listed on page 10.

**482. Extra Early Paris.** A popular and early heading variety. Heads are solid and very uniform but not considered as sure heading as the Erfurt type. Present values given on page 10.

# CRESS

**Culture.** Sow seed thickly in shallow drills 12 inches apart, in the Spring, and for a succession every two weeks.

One ounce of seed required for 200 feet of drill.

**Water Cress.** Sow the seed in cool, moist soil in the early Spring or if a shallow slow running stream or ditch is near, the seed may be sown within the same near the bank. When sown in a location of this kind it grows luxuriantly for years.

**485. Fine Curled (Pepper Grass.)** Quick growing; leaves finely cut like parsley; growth dwarf and compact; crisp and pungent. Prices are listed on page 10.

**490. Water Cress.** Highly esteemed as a salad; also used as a garnish for meats. Packet, ounce, and pound prices, on page 10.

# CHIVES

Chives are perfectly hardy perennial plants of the onion type. They are grown for the small leaves which come up very early in the Spring and give a mild onion flavor to food in which they are placed. The tops may be cut off as close to the ground as desired. See page 10 for seed prices.

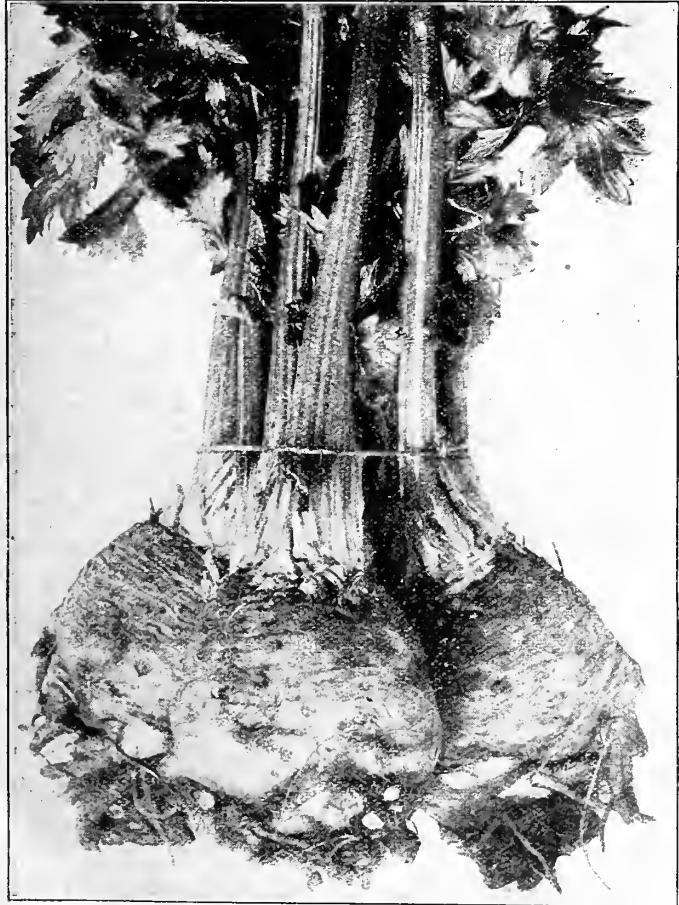
# CELERIAC

(Turnip Rooted Celery)

**Culture.** Treat seeds and plants the same as recommended for celery with the exception that it is customary to set the Celeriac plants in rows 1 foot apart. The roots are preserved for use in Winter by storing in moist sand in the cellar.

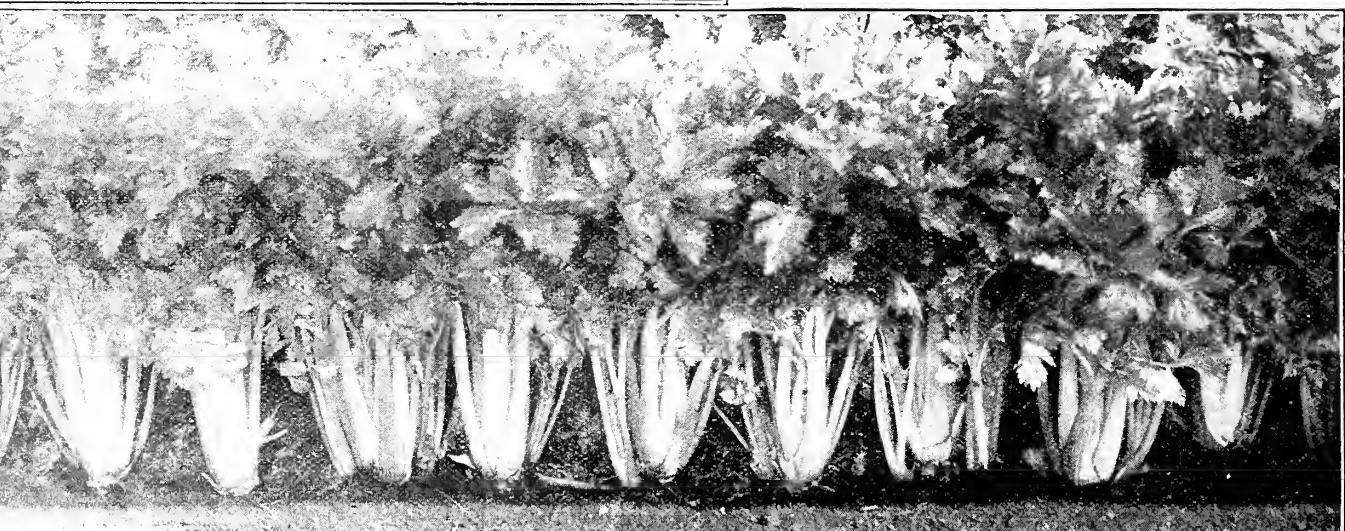
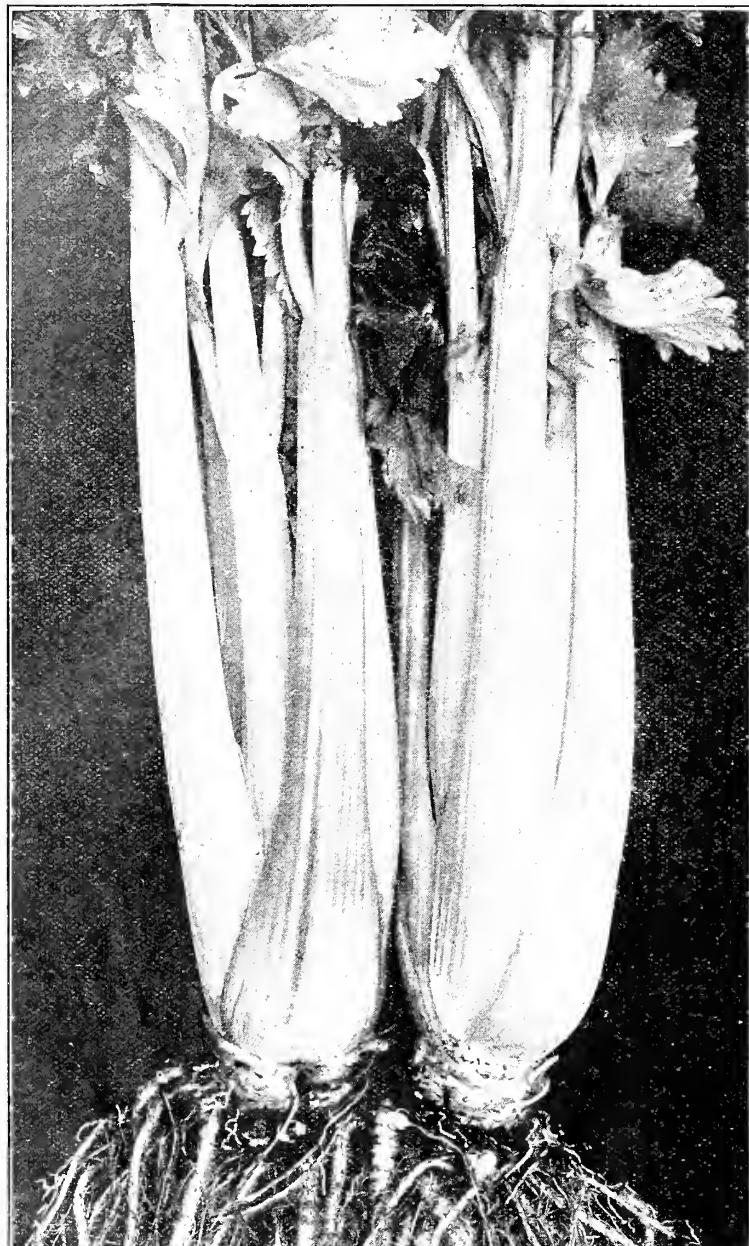
One ounce seed for 1,000 plants.

**500. Large Erfurt.** Large, smooth, excellent flavor. Values quoted on page 10 for all quantities.



Celeriac or Turnip Rooted Celery.

Northrup, King & Co.'s seeds are handled by 18,000 dealers in the Northwest. If your dealer will not supply you, write us direct.



Northrup, King &amp; Co.'s Golden Self Blanching Celery.

## CELERY

**Culture.** Sow seed in the garden, as early in the Spring as the soil can be worked. Cover the seed lightly and firm well.

Keep the bed moist to insure quick germination and growth.

Before setting out the plants shear off the top leaves, which makes stocky plants with a tendency to spread out.

When ready, set plants 6 to 8 inches apart in rows 3 to 4 feet apart, according to variety and soil. When the roots of the Celery plants are very long it is advisable to trim them off just before setting to about 3 inches.

Cultivate well until the middle of August, then, work up the soil between the rows around plants from time to time until plants are covered and they will soon be ready for use.

When desired for winter use it should not be bleached in the field, but enough soil should be drawn about it to secure an erect habit of growth and it should be transferred to the cellar prior to settled cold weather.

One ounce of seed will produce about 3,000 plants.

### 505. Northrup, King & Co.'s Golden Self

**Blanching.** This splendid variety is without doubt the most popular Celery grown. It is a self-blanching sort, with a little banking or covering, even the outer ribs assume a beautiful golden yellow, while the heart or vine stalks are deliciously tender, brittle and sweet. This variety is being very extensively grown both for market and private use, not only on account of its ease of culture, but for its superior quality. It is not quite so early as the White Plume, but is of heavier and more compact growth, the stalks being thick, crisp and brittle. The hearts are large and solid, blanching a beautiful waxen yellow. It is tender and sweet and free from stringiness; flavor rich.

Our Private Stock seed is procured from a noted Celery grower in France. The American grown seed is often as good as any produced in France, but we have sometimes been disappointed in the quality, while the seed produced in France has never failed us. For that reason we offer both strains.

Our Private Stock seed is sold only in sealed packages. Prices given on page 10.

### 510. Golden Self Blanching, American

**Grown.** This is the same variety as our Private Stock seed but is American grown. It gives good results as a rule but we do not recommend it so highly as our French grown seed. Refer to page 10 for prices.

### 515. Northrup, King & Co.'s Kalamazoo.

(Sold only in sealed packages.) We consider our Kalamazoo absolutely and without exception the very best Celery grown. It is late, it is not self-blanching, but it is worth many times over all the extra trouble and labor involved in growing it. Kalamazoo Celery, when properly grown, is extremely large, solid and crisp, and possesses a rich sweet and "nutty" flavor unequaled by any Celery we have ever seen. It is a fine keeper. For prices of this seed turn to page 10.

520. **White Plume.** The earliest Celery. This is a well known variety. Popular on account of its earliness and the ease of its culture. See page 10 for prices.

530. **Golden Hearted Dwarf.** A favorite main crop variety. When blanched the stalks are of a wavy yellow color, solid and crisp. A splendid keeper. Priced on page 10.

535. **Giant Pascal.** One of the most popular sorts for storage. Winter use. It is very large in growth; the stalks are exceptionally thick with very heavy hearts which, when blanched, are of a beautiful creamy yellow color. Very brittle, superb flavor. Values listed on page 10.

537. **Winter Queen.** A very fine variety for Winter storage. Robust, stocky growth, requiring but little labor in blanching. The heart stalks are heavy, broad and solid, but crisp and tender, blanching to a rich, creamy-white. Note the prices for all quantities as quoted on page 10.

## SWEET CORN

Market gardeners and private planters should keep in mind the important fact that Sweet Corn produced in the North is earlier and more hardy than the same varieties grown farther south. We do not think it too much to claim that nearly all of our varieties of Sweet Corn are easily a week to ten days earlier than the same varieties produced elsewhere. This means a great deal to the gardener who wishes to have his Corn first in market, for it is then that the best prices are obtained. It is equally as important also to the private planter growing Corn for his own table, as it lengthens the season for all varieties.

One lb. of seed will plant about 100 hills; 12 to 15 lbs., an acre in hills. The Minnesota State Law designates 48 lbs. as a bushel of Sweet Corn.

Note—For succession, plant Golden Bantam for earliest; Peep o'Day for

### The Two Best Early Varieties of Sweet Corn

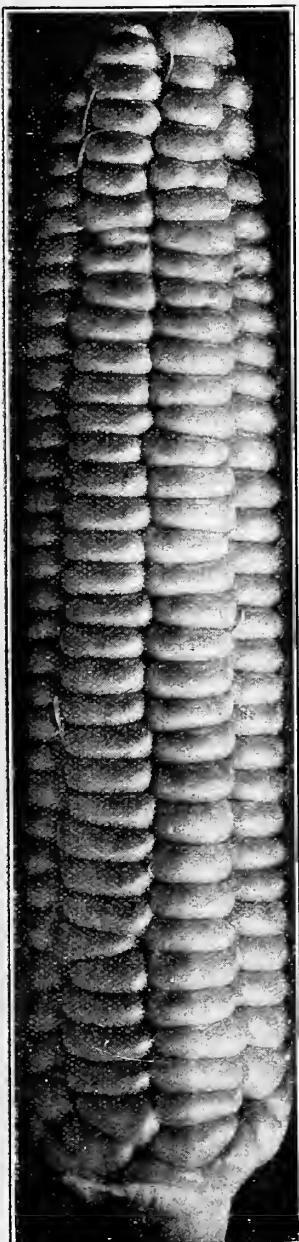
#### 545. Golden Bantam.

Should be grown in every garden.

Everyone likes to eat Golden Bantam Corn. In fact many people will not take any other when Golden Bantam is obtainable.

**Quality.** The flavor is deliciously distinct, superior to that of any other corn. Of all varieties the name "Sugar Corn" seems to fit this best as it is so unusually sweet. The decided preference shown for it in market, restaurant and home has enabled many growers to sell Golden Bantam at a premium. It is so unique in appearance that all who have ever enjoyed the golden yellow ears recognize them instantly. One cannot forget such splendid quality.

**Habit of Growth.** Another good feature of this Corn is the character of its growth. The stalks are usually 4 to 5 feet high, with short foliage. Being small they can stand very



Golden Bantam Sweet Corn.

close together and thus produce a large crop on a very small area. The ears average more than one to the stalk; they are 6 to 7 inches long, just the right size to serve at the table. The kernels are tender, very wide and of good depth while the cob is small. There are 8 to 12 rows of kernels on each ear. Golden Bantam ears are enclosed in a heavy husk, protecting them against insects and disease.

**For the Home Garden.** The best way to get good Sweet Corn is to raise it yourself. Then you can be sure that it is fresh and picked at just the right time. This is of the greatest importance since if it is picked too early it is watery and tasteless, if too late the hulls become tough. However, Golden Bantam remains an unusually long time in condition for eating.

No Sweet Corn is better adapted to the home garden than Golden Bantam since its slender growth requires little space and it matures in such a short season that some other crop can be raised on the same ground either before the latest planting or after removing the earliest.

**Earliness.** In season Golden Bantam is about six days earlier than Peep o'Day, but on account of the superior quality of the yellow Corn many start it indoors in April and transplant it later to the garden. By this method Golden Bantam is ready for use in early Summer. It may be sown out-doors from the end of May to July tenth. For succession, plant at ten day intervals, and thus produce the finest Sweet Corn from early Summer until frost.

**Hardiness.** Especially adapted for Northern planting, on account of its hardiness and ability to withstand unfavorable weather. Not only is it adapted for planting in the extreme North, but it is meeting with unusual success in the middle and southern states. It may be planted late in the Summer for early fall use. In high altitudes where many other varieties will not mature on account of the cold nights or early frost, this variety proves successful.

**Northrup, King & Co.'s Strain.** Our Golden Bantam Sweet Corn is all grown in Minnesota under the personal supervision of our experts. Here, in the North, the growing season is short so Corn must mature earlier than it does farther south. Consequently Northrup, King & Co.'s Strain of Golden Bantam is the earliest known. It is the best to plant in high altitudes or northern regions—wherever the growing season is short. Earliness counts in the middle states, too, where a few days often makes a big difference in the market gardener's profit, so we confidently recommend our strain for planting them also. We carefully select all ears before shelling and our stocks are the very finest obtainable.

That this strain is popular is proved by the fact that we usually sell enough Golden Bantam to seed 40,000 acres, shipping it to all parts of the country. New England alone uses a carload—New England, where most of our Sweet Corns originated. There if anywhere they know what good Sweet Corn is and so they come to the Northwest for their seed, convinced that here only can they secure the earliest and best strain.

**Price for Golden Bantam Sweet Corn,** quoted on page 10. Stock very short.

#### Facts About Both Varieties.

**Satisfaction.** We have yet to hear of a grower who has planted our Peep o'Day or Golden Bantam Sweet Corns and was not well pleased with them when weather and climate were favorable. From all points come letters from pleased customers.

**Culture.** The stalks, being short and small and having few leaves, may stand very close together. The seed may be planted either in hills or in rows. If the former, plant six or seven kernels in a hill, thinning out well so as to have four plants in each hill. If in rows and not in hills, drop the seed from six to eight inches apart, according to the soil, and if planted early cover about one inch deep. Seed planted later should be planted deeper, according to the amount of moisture in the soil. The rows may be just far enough apart to admit of cultivation. Twelve to fifteen lbs. of seed will plant an acre. Prepare the land thoroughly, making it deep and mellow. For early Corn, plant just as soon as danger of frost is over, bearing in mind that it is sometimes well to take a risk in early planting as early Corn is always in greatest demand.

It should be borne in mind that Minnesota grown Sweet Corn is at least two weeks earlier and much hardier than seed produced in any other section.

**Order Early.** It will be a great convenience both to our customers and to ourselves if all orders are sent early. This will insure their being filled immediately from the choice of our stocks.

second early; Portland for medium; Northrup, King & Co.'s Zig Zag Evergreen or Improved Black Mexican for late, and secure the very best Sweet Corn in each class.

To have the finest Sweet Corn it must be picked in just the right condition, that is, when the skin of the grain breaks at the slightest puncture. It will be of inferior quality if it is either a few days too old or too young.

**Our Sweet Corn is thoroughly tested before it leaves our hands.**

**Prices.** Sweet Corn prices are given on page 10. If your dealer does not handle N. K. & Co.'s seeds, write us direct. Packets and quarter pounds are sent prepaid, all larger quantities are shipped at purchaser's expense; if wanted by parcel post add postage at rates on page one.

#### 540. Northrup, King & Co.'s Peep o'Day.

(Sold only in sealed packages.)

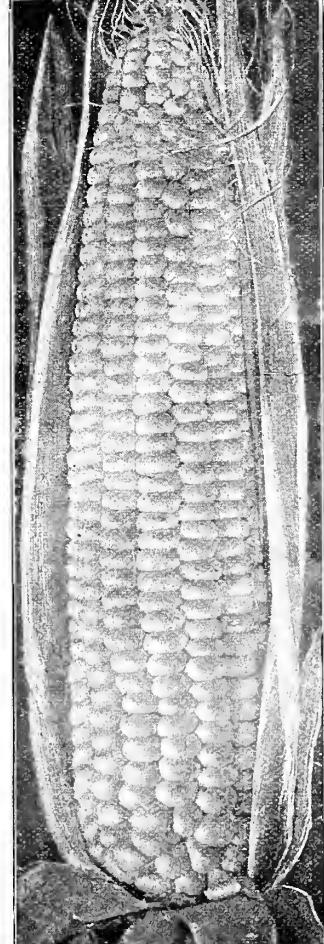
In Peep o'Day Sweet Corn we offer a variety which we believe to be earlier than any other Sweet Corn grown except Golden Bantam. There is no product of the garden which is so eagerly awaited as the first Sweet Corn of the season. Not the tasteless, discouraged, premature Corn shipped from long distances, of little value when picked and unfit for human food when it arrives, but the real, tender, juicy Sweet Corn, ready for use before the Summer has really commenced. Such a Sweet Corn is Northrup, King & Co.'s Peep o'Day. Not only is it early, but it is sweet and delicate in flavor, being excelled in this respect by no other early Sweet Corn except Golde Bantam. Kernels are pure pearly white.

On account of its extreme earliness Peep o'Day Sweet Corn is especially adapted for planting in northern latitudes and in high altitudes where other varieties fail entirely. Peep o'Day produces a large number of "suckers" which, unlike other varieties, produce full sized, well formed ears. It is not unusual to find a single plant bearing from four to five ears. The yield per acre is therefore very large.

The stalks grow 3 1/2 to 4 1/2 feet in height, and having light foliage may stand very close together. The ears are small, 5 to 6 inches in length. The kernels, though not large are of good substance and borne 8 to 12 rows to the ear.

**Prices** of Northrup, King & Co.'s Peep o'Day Sweet Corn are listed for large or small quantities on page 10.

Boys, here is your chance to make money! Obtain the use of an acre or half acre of ground or vacant lot and convert it into a Sweet Corn farm. It will surprise you to find how many people in your neighborhood are really hungry for good Sweet Corn, and how gladly they will purchase it from you.



Northrup, King & Co.'s Peep o'Day Sweet Corn.

## SWEET CORN

January 1st prices of Sweet Corn are given on page 10. Reliable dealers in the majority of towns throughout the Northwest sell Northrup, King & Co.'s dependable seeds. If your dealer cannot supply you, write us direct. Packets and quarter lb. lots are sent prepaid, all larger quantities at purchaser's expense; if wanted by parcel post add postage at rates on page one.

**Culture.** Sow upon arrival of warm weather in drills 2 inches deep, 3 to 4 feet apart, according to variety, placing the seeds 8 inches apart in drills or 6 seeds in hills 3 to 4 feet apart each way. Cultivate to keep free from weeds and when Corn is well started thin to 4 stalks to the hill.

Plant early varieties in succession, or sow early, second early and late sorts at one time, which will continue the season for several weeks. One bushel of seed will plant from 3½ to 4 acres.

The Minnesota State Law designates 48 lbs. as a bushel of Sweet Corn.

### EXTRA EARLY VARIETIES

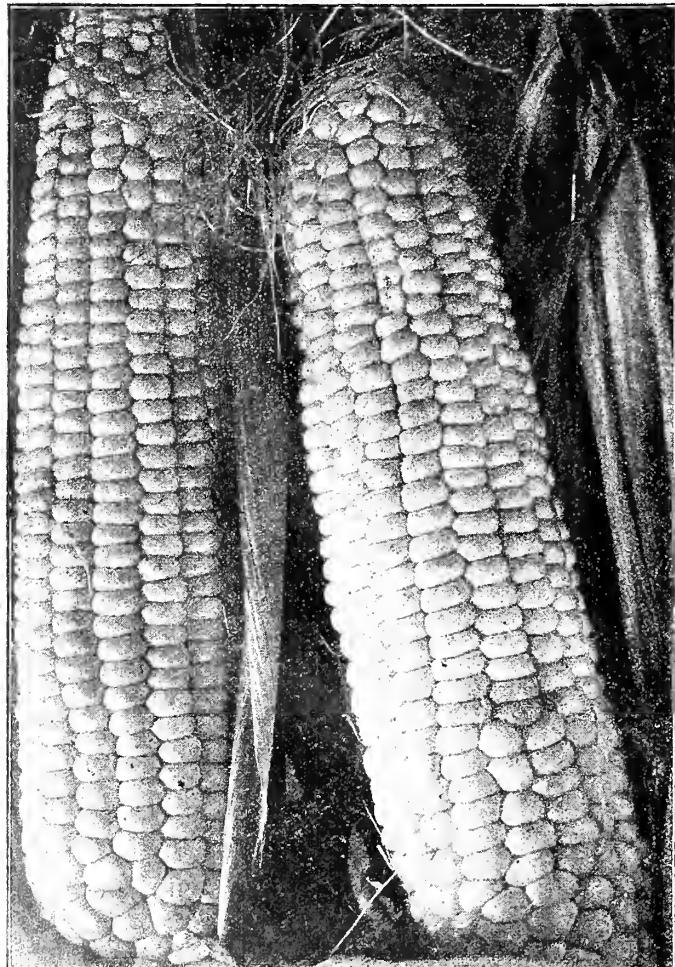
**550. Early Minnesota.** A standard early sort of excellent quality, especially desirable where seasons are short. The ears bear 8 to 10 rows of large, white grains. This variety is popular on account of its great productiveness. Excellent for market, home and canning use. Prices on page 10. Stock limited.

**555. Early Red Cory.** Equally as early as White Cory. Corn is white but the cobs are red. Very sweet and tender. See page 10 for values.

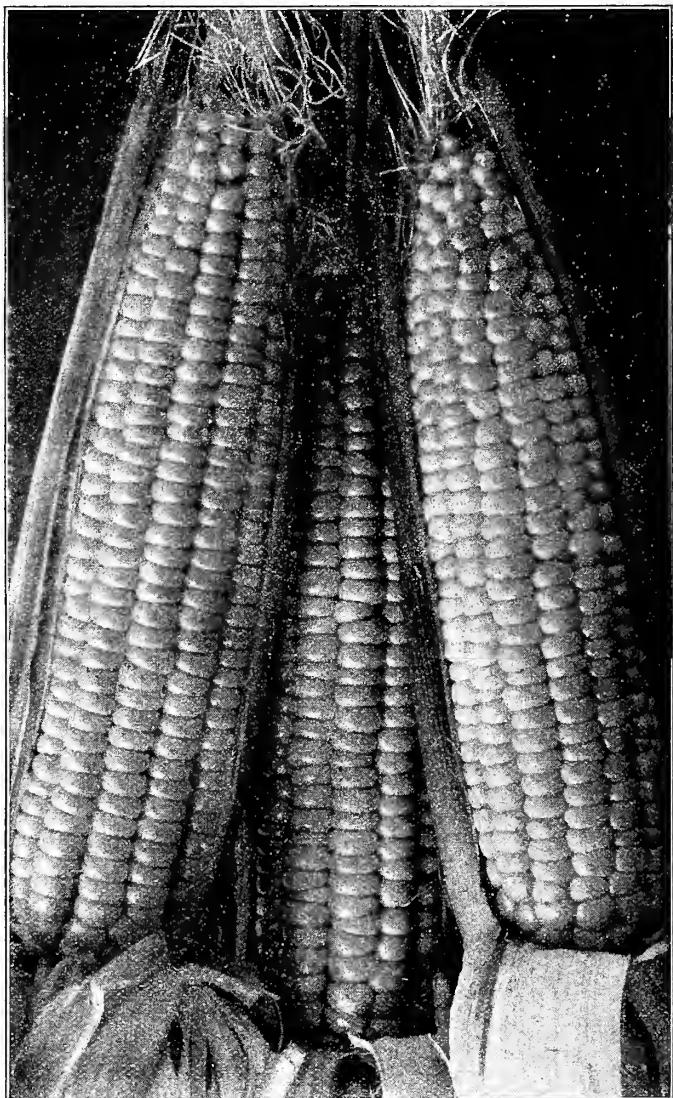
**560. Extra Early White Cory.** One of the earliest varieties, well and favorably known in all parts of the country. It succeeds well where the seasons are short, and can be recommended for general planting. Ears six inches long, with eight rows of broad grains. All quantities are priced on page 10.

**562. Extra Early White Mexican.** As sweet and delicious as Black Mexican and as early as White Cory. Stalks 4½ ft. high. Ears eight inches long, usually eight rowed. Superior in quality to any early variety of equal size. Cost of seeds given on page 10.

**564. Howling Mob.** This variety originated at Toledo, Ohio, and its queer but appropriate name has reference to the loud and clamorous demand for the Corn when brought to market. The stalks are usually about 5 feet in height and produce early in the season two splendid ears to a stalk. The ears are 7 to 9 inches in length and are well covered with a heavy husk, affording protection from the green worms which so often are destructive to early varieties. There are 12 to 24 rows of good sized white kernels. Values listed on page 10.



Early Minnesota Sweet Corn.



Northrup, King & Co.'s Portland Sweet Corn.

**575. Mammoth White Cory.** Similar to Early Cory, quite as early. The kernels, however, are somewhat broader and the ears average somewhat larger in size. Prices on page 10.

**578. Pocahontas.** An exceptionally early variety. The growth is very uniform and the ears are evenly and compactly filled with broad, white kernels which are tender, sweet and of very fine quality for so early a variety. See page 10 for prices on any quantity.

### SECOND EARLY VARIETIES

**585. Northrup, King & Co.'s Portland.** (Sold only in sealed bags.) This variety is not quite so early as the Cory, but it will pay Sweet Corn growers to wait a few days for it. Private families pronounce it unsurpassed; market gardeners capture trade with it. January price for seed is given on page 10.

**590. Early Crosby.** A standard sort deservedly prized by thousands of planters as one of the sweetest of varieties. The kernels are very closely set. This strain is superior to any variety of Sweet Corn grown for canning purposes in the state of Minnesota. Turn to page 10 for prices.

**592. Early Evergreen.** This fine variety is ten to twelve days earlier than Stowell's Evergreen and yields large, handsome, ten or twelve-rowed ears. An excellent variety to follow Mammoth White Cory. Price quotations are on page 10.

**595. Perry's Hybrid.** A well known and favorite sort, valued on account of its hardiness, productiveness and size of ears. Values listed on page 10.

**600. White Evergreen.** This variety is a little earlier than Stowell's and is pure white in color. The stalks are of strong, vigorous growth from six to seven feet high. The ears are very large and well filled to the tip with long, slender, pure white grains of the finest flavor. On page 10 are listed the prices of this seed.

## SWEET CORN

## LATE VARIETIES.



## 605. NORTHRUP, KING &amp; CO.'S ZIG ZAG EVERGREEN.

(Sold only in sealed bags.) The very best of all late white varieties. We have statements from experiment stations and from canning factories, as well as from hundreds of private planters, testifying to its superior sweetness and productiveness, incomparable whiteness when cooked and fine appearance on the table. As introducers of this variety, we assert, without fear of contradiction, that it is best of all the late white sorts. Prices not known when this page was printed. See page 10 for January values.

## 610. STOWELL'S EVERGREEN.

The best known and most largely planted of all the varieties. We are free to confess that Northrup, King & Co.'s Zig Zag Evergreen possesses all of the good qualities which have made the Stowell's strain so popular. At the same time, the Stowell's Evergreen is hard to beat and for a long time to come many will have it in preference to any other sort. This Corn is distinguished by the large ear, the long, deep kernels, its rich, sugary flavor and its long-keeping qualities. See Our seed has been selected for its sweetness, productiveness and large size. See page 10 for prices on all quantities.

Please note prices on Sweet Corn are prepaid only on packets and quarter pound lots. Postage rates given on page one.



Country Gentleman Sweet Corn.

## 615. COUNTRY GENTLEMAN.

This variety is often called the "shoe peg" Corn, owing to the arrangement of the crowded kernels, which are long and very sweet. Our seed of this variety has been carefully selected and is true to name. It is nearly as sweet as Peep o' Day and is far ahead in flavor of any of the late varieties. It remains tender and fit for use longer than most sorts, as the ear is enclosed in a thick husk which keeps it "in the milk." The ears average nine inches in length and are borne from two to five and sometimes six on each stalk. The cob is small and very closely packed from tip to butt with slender, pure white kernels of the finest quality. If you try this variety you will like it. Prices listed on page 10.

## 620. IMPROVED BLACK MEXICAN.

This variety has for a number of years had the reputation of being the sweetest of all Sweet Corn. When cooked, the ear is white with a bluish tinge towards the base of the kernel. Every year we have a number of inquiries from those who have known this Corn, but who have forgotten its name and remember it only as the "black Corn that was so very sweet." We offer a highly superior strain of this very desirable and much sought after sort. It must still rank with us as a late variety, but as it now matures nicely in Minnesota, it may be safely grown in almost any part of the United States. Values quoted on page 10.

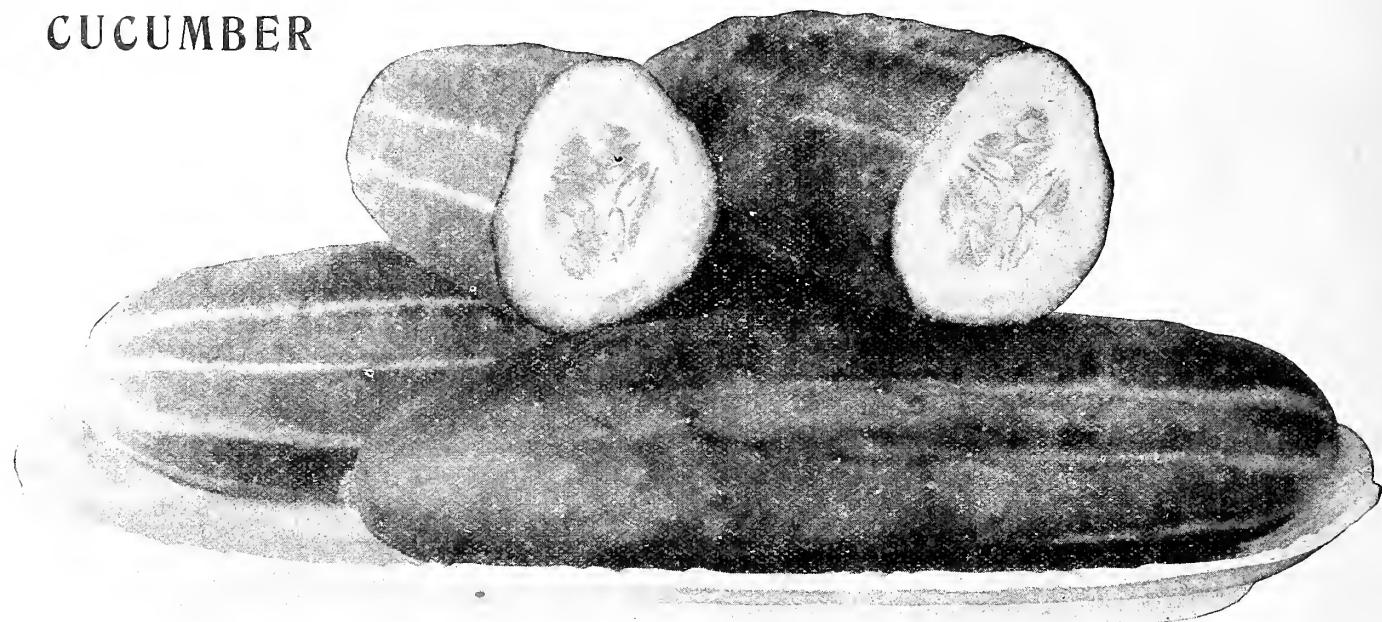
## 622. LATE MAMMOTH.

Rather late, producing the largest ears of any variety; often 14 inches in length and filled with large, broad, white kernels which are sweet, tender and delicious. Usually there are 16 to 18 rows to the ear. The stalks are very large. This page was printed before prices were known. Early prices are given on page 10.



Gathering a Profitable Sweet Corn Crop.

# CUCUMBER



Northrup, King &amp; Co.'s Sterling Cucumber.

**Culture.** Plant the seed  $\frac{3}{4}$  of an inch deep in hills 4 to 6 feet apart each way, according to the variety, about corn planting time, allowing 10 seeds to the hill. As soon as the plants commence to run, remove all but 3 or 4 of the most promising ones in each hill. Cultivate frequently as long as the vines will permit. The seed may also be started in old berry boxes by placing them in the hot-bed. When the weather is suitable—settled and warm—remove the box as the plants are placed in the garden. The fruit should be gathered as soon as large enough for use, if it is not, the productiveness of the vines will be permanently injured. One ounce required for 60 hills; two to three pounds per acre.

## 625. Northrup, King & Co.'s Sterling.

Sold only in Sealed Packages.

Will be found to possess the following points of superiority:

First. It is the earliest white spine Cucumber, suitable for table, market or shipping purposes, under all conditions of culture, whether under glass or in the open ground.

Second. It is one of the greatest producers of all varieties, and at all stages of growth is the handsomest and most attractive of all American sorts.

Third. It is of a very deep green color, which it retains during a much longer period of growth than any other variety, while in symmetry of form it is so regular, so uniformly one like the other as to create comment wherever it is seen.

Fourth. The quality is superb, being exceedingly brittle and crisp. The flavor is delicate and entirely devoid of the bitter taste so frequently noticed in other varieties.

Fifth. As a shipping Cucumber, the "Sterling" cannot be surpassed, as it holds up in color and quality better than any other variety.

Prices for all quantities are listed on page 10.

**635. Ak=sar=ben.** One of the finest strains of white spine Cucumbers, vigorous and prolific. Fruit is uniform in size, averaging eight to ten inches long, dark green in color and handsome in appearance. See page 10 for prices.

**640. Boston Pickling.** Very productive, grown largely for pickles. Fruit medium sized, very smooth, bright green. Values of seed given on page 10.

**645. Chicago or Westerfield Pickling.** Fine for market gardeners. Medium length, pointed at each end, has large spines, deep green, very prolific. Good for pickling. Note prices given on page 10.

**650. Cool and Crisp.** A strain of white spine similar to the Arington but larger. Fruit long, cylindrical, dark green. Fine for table use. Packet, ounce, and pound prices are quoted on page 10.

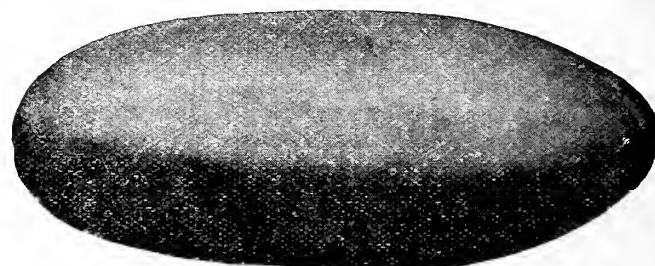
**655. Davis Perfect.** A carefully selected strain of Extra Long White Spine, suitable for both green-house and outdoor culture. The fruits are of large size, splendid quality and fine color. The flesh is tender, brittle and of excellent flavor. A favorite for market use. Turn to page 10 for prices of seed.

For illustration see following page.

**660. Early Frame or Short Green.** Used for table and pickling. Very productive. Fruit straight, bright green. Cucumber seed prices are shown on page 10.



Boston Pickling Cucumber.



Early Green Cluster Cucumber.

**665. Early Green Cluster.** Fruit small, grows in clusters of two or three, very prolific, short, dark-green. On page 10 are listed prices of this seed.



Northrup, King &amp; Co.'s Extra Long White Spine Cucumbers.

**630. Northrup, King & Co.'s Extra Long White Spine.** (Sold only in sealed packages.) An extra fine variety for either greenhouse or open ground. It grows to a large size in a very short time and commands fancy prices on account of its fine form and appearance. The above illustration is an interior view of a greenhouse in which this variety is grown during the Fall and Winter, with the most satisfactory results. Note the price, page 10.



White Spine, Evergreen Cucumber,  
Northrup, King & Co.'s  
Special Strain.

705. **White Spine, Improved.** Large, handsome, uniform fruits. Crisp and of fine flavor. Note the prices, page 10.

### 710. White Spine, Peerless.

Larger than the Improved, but not quite so early. All amounts priced on page 10.



Davis Perfect Cucumbers. See page 30.

## CUCUMBER

668. **Green Prolific.** Very productive, planted both for slicing and pickling. Four or five inches long when large enough to slice. Prices shown on page 10.

670. **Improved Arlington White Spine.** The fruit is uniform in size and shape averaging 7 to 8 inches long. Color dark green, quality excellent and contains but few seeds. See page 10 for prices.

675. **Japanese Climbing.** A vigorous grower, can be trained on a trellis. Fruit from 12 to 16 inches long, dark green and smooth. Flesh pure white, crisp and tender. Price quotations listed on page 10.

680. **Klondike.** One of the best varieties for slicing. It will produce handsome, very dark green fruits slightly striped at the ends, equal in appearance to hot-house specimens. A white spined Cucumber of medium early maturity, fruits averaging about eight inches in length and two inches in diameter, uniform in size and shape.

The vines are very hardy and productive and continue long in bearing. Market gardeners find this variety especially desirable because it retains its dark green color much longer and is less affected by the hot sun than most other sorts. Much used as a shipping Cucumber, but is also adapted for the home garden. All quantities priced on page 10.

685. **Long Green.** Produces dark-green fruit from 10 to 14 inches long. Flesh solid, crisp and of fine quality. Fine for slicing and pickling. List of prices given on page 10.

### 690. Northrup, King & Co.'s Pickling.

(Sold only in sealed packages.) It would be difficult to "make to order" a better pickling cucumber than this. Fruit is medium length, pointed at each end; color deep green. It is very productive. Flesh, crisp and tender, and covered with spines. The best sort for those who like a crisp, tender pickle. Values of this variety are shown on page 10.

### 695. Northrup, King & Co.'s Siberian.

(Sold only in sealed packages.) The earliest. Fruits are small, being about 3 inches in length and 1 1/2 inches in diameter. Plants productive and fruits of excellent quality. On page 10 are given packet, ounce and pound prices.

#### Best I Ever Saw.

*I think your Siberian Cucumber is the best I ever saw in this locality.* — IRA WARD, Wash.

### 697. West Indian Gherkin

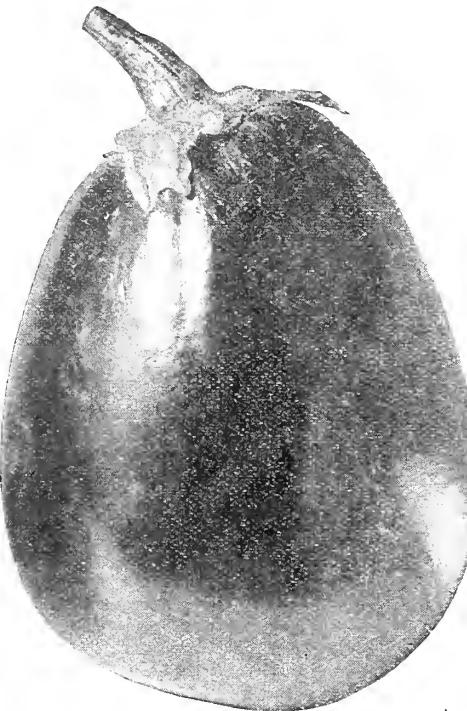
or Burr Cucumber. Small, oval, green fruits about two inches long. They are covered with soft, fleshy spines. This variety is used only for pickling. See page 10 for prices.



Northrup, King & Co.'s Pickling Cucumber.

700. **White Spine Evergreen.** Northrup, King & Co.'s Special Strain. A fine strain, bearing blue green fruit, often from 10 to 12 inches in length, smooth, round and of fine quality. Especially recommended for hot-bed culture. The seed we offer has been taken from fruit selected for its ideal form, uniformity in size, shape and color and general appearance. A very satisfactory variety in every way. Prices listed on page 10 for all quantities.

*It is convenient to select garden seed from the Northrup, King & Co. packet seed case displayed in your dealer's store. He can also obtain larger quantities of this reliable seed for you. If for any reason he cannot supply you, write directly to us.*



Northrup, King & Co.'s Improved New York Spineless Egg Plant.

720. **Green Curled.** Leaves finely cut. Refer to page 10 for cost of seed in all quantities.

725. **White Curled.** Very beautiful, leaves need no blanching. Turn to page 10 for seed prices.

### 739. GARLIC.

About 250 lbs. required per acre.

Garlic is a perennial plant with a bulbous root and belongs to the Onion family. It has flat leaves and the bulb is composed of several parts or bulbels similar to those of a multiplier onion set. Garlic has a strong penetrating odor and flavor and is highly esteemed for flavoring soups, stews, etc. We cannot offer seeds but can supply the bulbs or sets.

Prepare the ground as for onions, separate the sets and plant them in drills eight inches apart and four to six inches apart in the drill, covering two inches deep. Cultivate like onion sets. When the leaves turn yellow, pull up the bulbs and dry in the shade.

Prices of well cured bulbs will be found listed on page 10. Shipped by express or freight at purchaser's expense. If shipped by parcel post add 10c per lb. to cover extra cost.



**Culture.** Egg Plant seed should be sown in hot-beds in March or April and transferred to pots or boxes when an inch or two high and planted out early in June in rows  $2\frac{1}{2}$  feet apart each way, cultivation same as for cabbage. One-fourth pound seed will provide plants for one acre.

### 715. Northrup, King & Co.'s Improved New York Spineless.

Sold only in Sealed Packages.

The handsomest type and most perfect strain of Egg Plant in existence. The plants are stocky and low branching, stalks entirely free from spines, and produce continually handsome, deep purple fruits of largest size and most perfect symmetry. The plants usually bear eight to ten immense fruits of the finest quality before being killed by frosts. For prices of Egg Plant seed, see page 10.

716. **Black Beauty.** A little earlier than our Improved New York Spineless but usually not quite so large. The skin is a rich, lustrous dark purple. Very desirable for the market as the fruit holds its rich coloring a long time. See page 10 for prices.

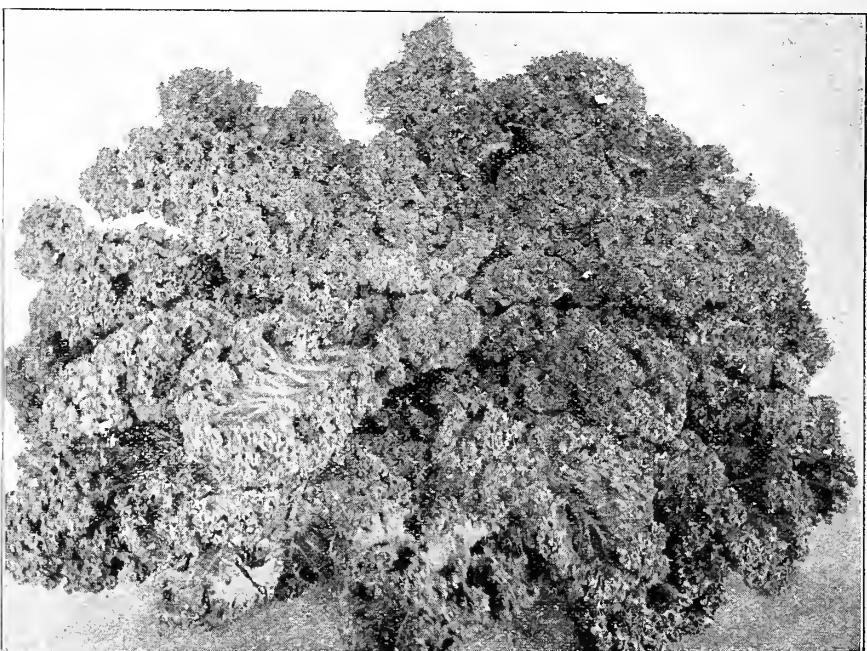
### ENDIVE.

This plant furnishes an attractive and appetizing salad for the Fall and Winter months, or by repeated sowings a supply may be had nearly all the year round. Useful in flavoring soups, stews, etc. Makes delicious greens if cooked like spinach.

Cultivation same as for lettuce. The bleaching of Endive is brought about by drawing the leaves together into a head and tying them. This should be done a month before it is wanted for table use.

One ounce of seed required for 100 feet of row.

718. **Broad Leaved Batavian.** Leaves are broad, thick, green, more or less twisted and waved, with white mid-ribs. It forms large hearts, which when blanched, form one of the best winter salads. Crisp, tender and fine flavor. Packets and larger amounts priced on page 10.



Kale or Borecole.

### KALE or BORECOLE.

**Culture.** More hardy than cabbage and makes excellent greens. Improved by a touch of frost. Sow in May and June, cultivate same as cabbage. See page 94 for Thousand Headed Kale.

740. **Dwarf Curled Scotch Kale.** This is more hardy than cabbage and makes excellent greens for Winter and Spring use. The leaves are curly, bright green, very tender and delicate in flavor. Sow seed in May or June, transplant in July and cultivate same as cabbage. For early Spring use sow in September; protect over Winter with a covering of straw or litter. Prices are given on page 10.

742. **Tall Green Curled Scotch.** bearing long, light green leaves, finely curled at the edges. Extremely hardy, being improved, rather than injured by a moderately heavy frost. Values quoted on page 10.

### KOHL RABI.

**Culture.** Sow the seed in the Spring in drills  $\frac{3}{4}$  of an inch deep and 2 feet apart and when the plants are a few inches high thin to 15 inches. Cultivate same as beets.

Two pounds of seed required per acre.

745. **Early White.** For Forcing. Very early, small, handsome, white bulb. Best early variety for the table. Packet, ounce, and pound prices are given on page 10.

### What Our Trade Mark Means.

Our Sterling Bag Trade Mark is used to brand only those varieties of seeds which we can especially recommend to our customers. A variety so marked will be found the best of its kind in every instance. We use this method to designate our specialties. Northrup, King & Co.'s Sterling Brand Seeds have proved by careful test superior in purity, germination, productiveness and hardiness. They comply with the state pure seed laws of all states.



White Curled Endive.



Leek.

## LEEK.

**Culture.** Sow seed in early Spring in rows 1 foot apart and 1 inch deep. When 6 inches high, transplant 4 to 6 inches apart in rows 12 inches apart, setting the plants in the ground up to their center leaves and as they grow draw the soil up around them. This process tends to bleach the Leek and to make more palatable the edible portion. Seed required per acre, 4 lbs.; 1 oz. for 100 feet of drill.

**750. Large American Flag.** or "Broad London." A large growing variety. Prices of Leek are shown on page 10.

## MUSTARD.

**Culture.** When used for salads, sow thickly in shallow drills, 6 inches apart. Successive sowings may be made every week or two. When grown to produce seed for use in pickles, pepper sauce, etc., sow early in rows a foot apart and 3 inches apart in the row.

**755. Southern Giant Curled.** Used largely for salad, especially in the South. See page 10 for prices.

**757. White Mustard.** Makes delicious salad or greens. Values listed on page 10.

## OKRA or GUMBO.

**Culture.** Sow the seed thickly in rich ground as soon as the ground has become warm, in drills 3 feet apart and one inch deep. Thin out to ten inches apart and cultivate freely.

**760. Mammoth Long Podded.** Exceedingly productive and bears splendid dark green pods from eight to nine inches long. It does not grow hard. Turn to page 10 for prices.

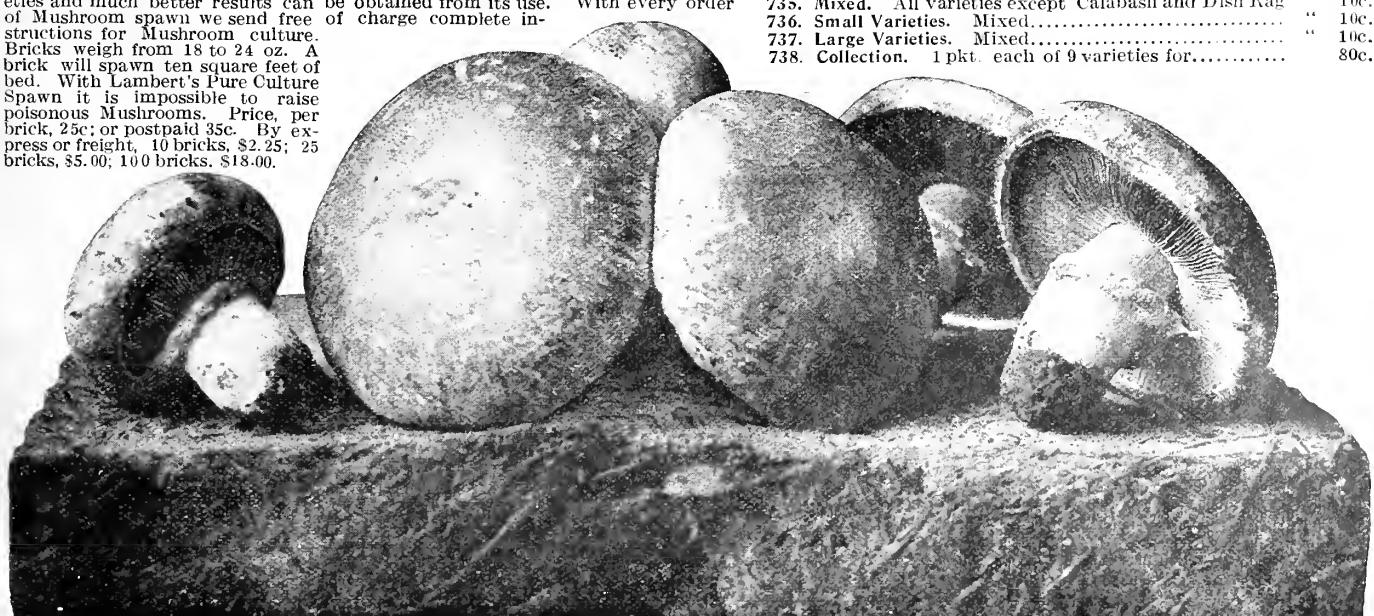
**762. Dwarf Green.** Grows slow but stocky and is very productive. Prices of packets and larger lots are shown on page 10.

**763. Long Green.** The plant is dwarf, but pods are long and tender. Cost of seed is given on page 10.

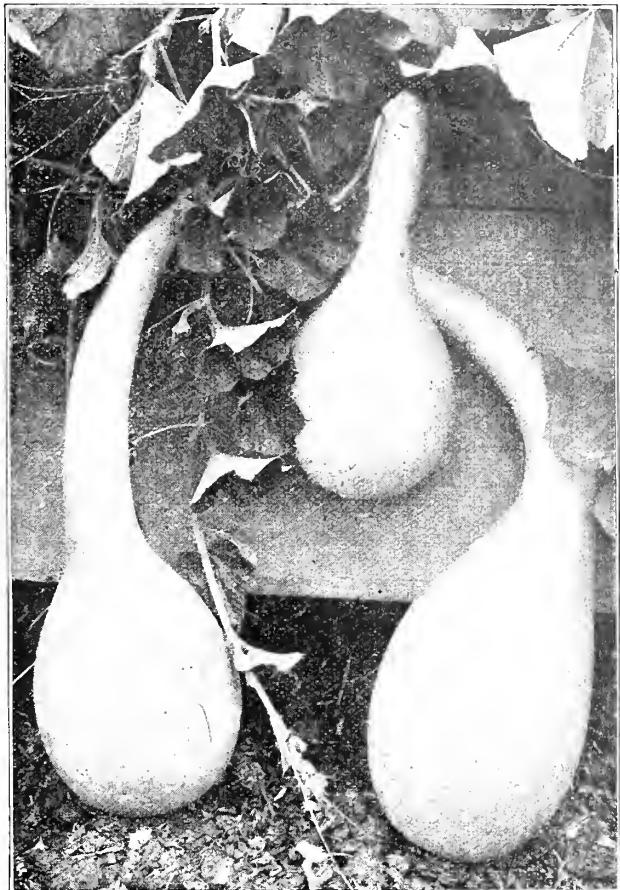
**764. White Velvet.** The plants are about three and one-half feet high, early maturing and very productive. The pods are white, long, smooth and are tender until nearly full sized. Seed prices on page 10.

## MUSHROOMS.

**Lambert's Pure Culture Spawn.** Lambert's Pure Culture Spawn is far superior to the old style varieties and much better results can be obtained from its use. With every order of Mushroom spawn we send free of charge complete instructions for Mushroom culture. Bricks weigh from 18 to 24 oz. A brick will spawn ten square feet of bed. With Lambert's Pure Culture Spawn it is impossible to raise poisonous Mushrooms. Price, per brick, 25c; or postpaid 35c. By express or freight, 10 bricks, \$2.25; 25 bricks, \$5.00; 100 bricks, \$18.00.



Mushrooms grown from Lambert's Pure Culture Spawn. Brick of Spawn shown below.



## GOURDS.

Desirable where an immense amount of vine is wanted quickly. Fine for a screen. Fruit is unique, ornamental and often useful. It will keep for years when properly ripened. Plant after ground has become warm, in rich soil.

726. Apple. Apple shaped.....	Pkt., 10c.
727. Calabash. For pipes.....	" 10c.
728. Dipper. Very useful.....	" 10c.
729. Hercules Club. 4 feet long.....	" 10c.
730. Nest Egg. White like an egg.....	" 10c.
731. Orange Shaped. Round, yellow.....	" 10c.
732. Pear Shaped. Striped.....	" 10c.
733. Sugar Trough. Very large.....	" 10c.
734. Dish Rag. Handy for the kitchen.....	" 15c.
735. Mixed. All varieties except Calabash and Dish Rag	" 10c.
736. Small Varieties. Mixed.....	" 10c.
737. Large Varieties. Mixed.....	" 10c.
738. Collection. 1 pkt. each of 9 varieties for.....	80c.

## LETTUCE

**Culture.** Sow in the house or in frames any time after March 10th; if put outdoors, as early in the Spring as ground can be worked and at intervals of two weeks till June 1st. Soil should be a rich sandy loam with plenty of humus. Rows to be  $1\frac{1}{2}$  feet apart, plants two inches apart in row after thinning. Two ounces of seed will sow 150 feet of row,  $\frac{4}{5}$  to 5 lbs. required per acre. For later treatment see note at foot of page 35.

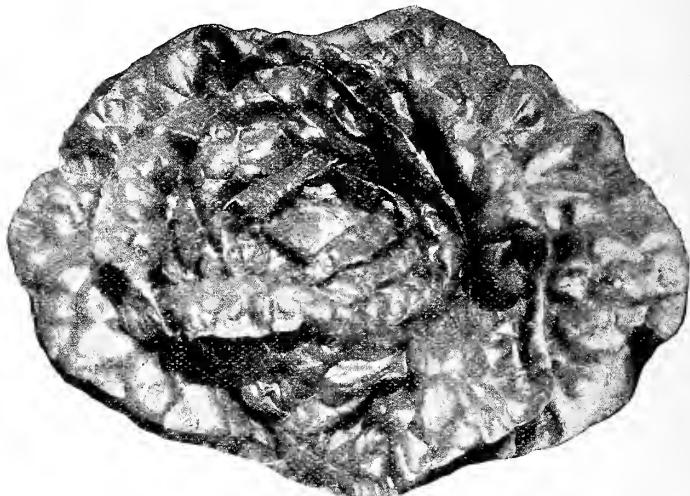
### HEADING VARIETIES.

#### 765. Northrup, King & Co.'s "Sterling."

Sold only in Sealed Packages.

This grand Lettuce delights all who grow it. It is equally suited for the market gardener and the private planter. The market gardener will find that this Lettuce will command a premium over other sorts on account of its appearance and quality, while for private gardens no other Lettuce approaches it for table use. For salads it is unequalled.

Our Sterling Lettuce comes under the "crisp heading" class. The plants attain quite a large size, but are never coarse. The outer leaves are of a beautiful green, changing toward the center of the head to a rich golden yellow. In flavor it is extraordinarily sweet and crisp, and is of such beautiful appearance and superior quality as to cause universal remark. We never give the name "Sterling" to a variety that is not the very best of its class, and purchasers may rely on finding this Lettuce the best they have ever put on the table. For price of this seed see page 10.



Northrup, King & Co.'s Sterling Lettuce.

#### 770. Northrup, King & Co.'s Market Gardeners.

(Sold only in sealed packages.) This is Lettuces. It is a very great favorite with market gardeners and holds the lead in point of popularity. See page 10 for prices.

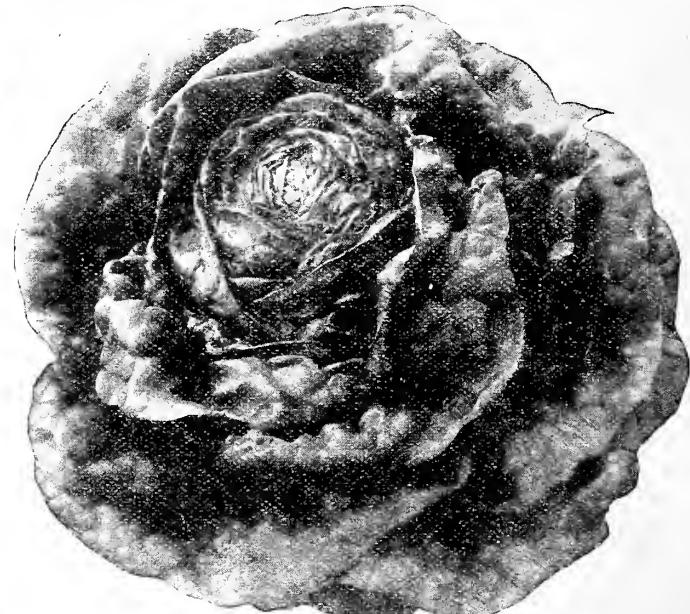
**785. Big Boston.** A large heading, forcing sort, very hardy and thin and very hard, bright green leaves. Quite tender. Indoors this forms a solid head, while outside it is less distinctively a heading sort. Note the prices shown on page 10.

**787. Black Seeded All Seasons.** This variety is of very attractive appearance, having large, pale green leaves and a large, round head of splendid quality. Very crisp and tender, having that "buttery" quality so much liked. It resists heat exceptionally well, and as its name implies may be grown in the open from early until late in the season. On page 10 prices for all quantities are shown.



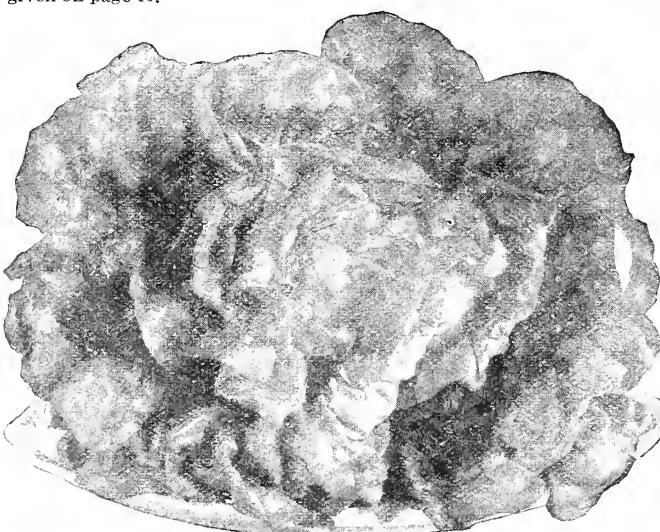
Black Seeded Tennis Ball Lettuce.

**780. Black Seeded Tennis Ball.** One of the best for forcing or early outdoor planting. Plants medium size, having thick, dark green leaves. When grown forms solid heads which are crisp and tender. Prices are given on page 10.



Crisp as Ice Lettuce.

**795. Crisp as Ice.** The heads are large and very solid. When cut open they have a rich, creamy heart and are so tender and brittle as to warrant the name, "Crisp as Ice." Values of this seed listed on page 10.



May King Lettuce.

**790. California Cream Butter.** Forms round, crisp, solid heads, of buttery flavor, medium early. One of the best summer varieties of head Lettuce. Turn to page 10 for prices.

**800. Deacon.** OR SAN FRANCISCO MARKET. While this sort does not grow so large as some kinds, it has few outside leaves, grows very solid, and has that delicious, buttery flavor so much sought for and esteemed. The center of the head blanches to a bright yellow shade and is very crisp and tender, remaining so for a long time, even in hot weather. One of the finest sure-heading summer sorts. Cost of any quantity of this seed is given on page 10.

**810. Golden Queen.** An early sort. One of the best for outdoor planting, as well as growing under glass. The color is a beautiful golden yellow. The heads are so solid, that there is no waste. See page 10 for prices.

**820. Iceberg.** Has an unusually solid head. The white, main ribs of the leaves curve toward the center, and keep the interior thoroughly bleached. It is quick growing and always crisp and tender whether propagated in early Spring or in the hot days of Summer. All lettuce seed prices are listed on page 10.



Prizehead Lettuce.

**835. Prizehead.** A large loose headed, thin leaved sort. The very large leaves are crimped, bright green, tinged on the edges with reddish brown and are crisp and sweet. Prices given on page 10.

**838. Wayahead.** A very early, firm heading sort, of fine appearance and quality. The heads are larger and tighter than other earlies. Outer leaves light green, under leaves are blanched to a buttery yellow tint. Note the price of seed, page 10.

**839. New York or Wonderful.** Produces immense heads, solid as a cabbage. The heart blanches beautifully being crisp, tender and delicious. A robust variety, roots deeply and therefore can resist hot, dry weather. Outer color is a distinct apple-green. Extensively grown all over the country, it is especially popular in California where it is known as Los Angeles Lettuce. A desirable standard summer Lettuce. Sold at prices given on page 10.

**845. Salamander.** A very bright green and attractive variety. It forms large, solid heads of thick, smooth, very tender leaves of the finest quality. The leaves are broad, thick, somewhat crumpled and closely overlapping so that the inner ones are very finely blanched. It withstands hot weather remarkably well and can be planted any time during the Summer. One of the best head Lettuces to grow out-doors. Also remains long in head before going to seed. On page 10 prices are quoted for all quantities.

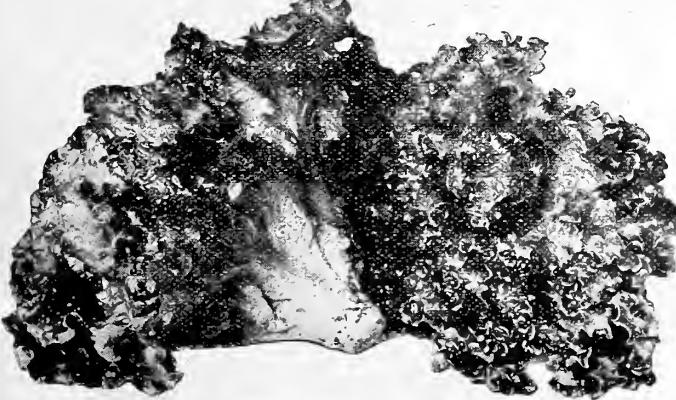
**846. Mammoth Black Seeded Butter.** An enormous compact, cabbage-like, head Lettuce, which is tender, crisp and sweet. The leaves are thick, yellowish-green and the inner ones are beautifully blanched. It is a good sort for all seasons. Priced on page 10.

#### Fertilizers for Lettuce.

To grow the best tender Lettuce it is advisable to have a very rich, friable soil. The quality of this vegetable is largely dependent upon the rapidity with which it is grown, therefore liberal manuring and thorough preparation are profitable. We recommend for this purpose, Northrup, King & Co.'s Sterling Garden and Lawn Fertilizer and Sheep Manure, listed on page 109.

#### LOOSE LEAVED VARIETIES.

**815. Grand Rapids.** The most popular variety for green-house planting. It will make a quick growth even under adverse conditions. It is of handsome appearance, a strong grower and not subject to rot. When exposed for sale it keeps from wilting longer than other varieties. Its upright habit of growth permits close planting. See page 10 for prices.



Grand Rapids Lettuce.

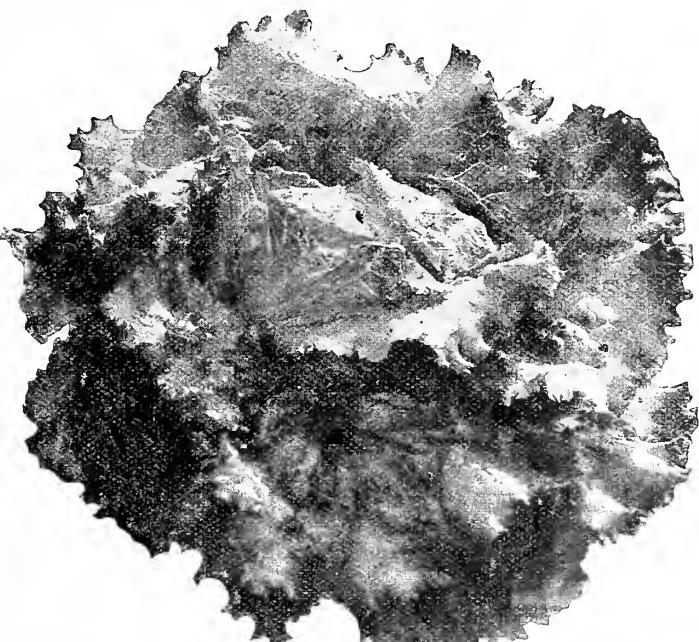
#### LETTUCE HEADING VARIETIES.

**825. Improved Hanson Head.** The Hanson is one of the crisp heading sorts, in all respects one of the very best out-door varieties for both the professional and amateur gardener. This variety is very hardy and will stand extremes of weather better, perhaps, than any other of the "crisp heading" sorts.

In color it is of an attractive green. The head, which attains a large size, is hard, tender and crisp, with a blanched appearance in the center. The table quality is excellent, wholly free from bitterness and remains in splendid condition for use long after it has reached maturity. Head lettuce seed is priced on page 10.

**830. May King.** An unequaled variety for early spring planting in the open ground, exceptionally early, attaining a size suitable for use before other sorts. Also good for forcing. It is extremely hardy and very quick growing. The plants grow six to seven inches in diameter, with the outer leaves folded closely, forming the plant into a solid head. The outer leaves are light green, slightly tinged with brown; the inner leaves are bright yellow and of a fine, rich, buttery flavor. Each head will weigh nearly a pound on the average. See page 10 for prices.

**837. Tenderheart.** A large, new early head Lettuce. Plants are uniform, and nearly all head with but few outside leaves. Very attractive and appetizing as well as being very tender, crisp, succulent and sweet. Tenderheart is very hardy and will withstand the early summer heat splendidly. Will remain in head without running to seed, for two weeks after it is fully headed up. The color of the outside leaves is pale green with a slight reddish brown tinge. Prices are shown on page 10.



Improved Hanson Head Lettuce.

**775. Black Seeded Simpson.** One of the best, either for forcing under glass or for open ground culture. It forms large, thin, loose leaves of light green color, very tender, crisp and of fine quality. A fine sort for Summer, as it withstands the heat; also for the home garden. Turn to page 10 for prices.

**805. Early Curled Simpson.** A popular sort, free from bitterness; forms large, loose heads. Packet, ounce and pound prices on page 10.

#### ROMAINE, COS OR CELERY LETTUCE.

**817. Paris White Cos.** A very distinct variety of Lettuce, having large, elongated, compact heads, that blanch mild and crisp. The plants are of erect growth, forming a tall, slightly oblong bunch of large, crisp leaves. This variety is priced on page 10.

#### Culture for Head Lettuce.

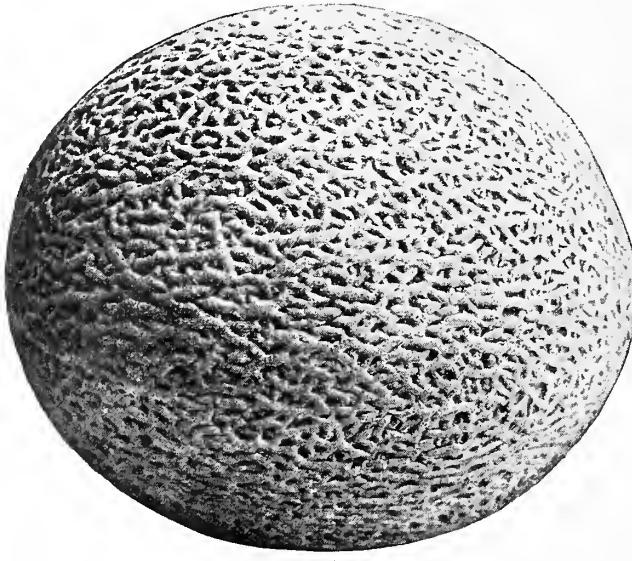
Assuming that the Lettuce plants have been started as suggested at the top of page 34, they should be transplanted as soon as they begin to crowd. Place them six inches apart in the row in extra rich soil and if the sun has become very hot, it will be best to furnish partial shade. Keep the soil well cultivated around the plants to destroy weeds and preserve a soil mulch. Water frequently during dry weather.

When the heads start to develop work up the soil around them so as to induce close, compact growth. As soon as the outside leaves are large enough they should be brought together and tied over the top with raffia. This should be done more loosely than with Cauliflower and the plants must be closely watched so that they can be used at the right stage of development. Tying the heads in this manner helps to blanch them and make them deliciously tender and crisp.

## MUSKMELOON

## Rocky Ford Cantaloupes.

This Melon is just the right size to serve in halves and its delicious flavor makes it ideal for that purpose. The profits to be derived from growing these Melons are very large when proper soil, seed and cultivation are used. Perhaps the most important consideration is the seed to be planted. We are offering below the three best strains of Rocky Ford Cantaloupe, each of which has been bred with a particular point in view. Earliness, rust resistance, netting and solid meat are highly important characteristics which have been secured by the persistent efforts of Melon breeders in the varieties we offer.



Netted Rock.

**916. Rust Resistant Pollock.** This type is the highest development, both as to netting and rust-resistant qualities, yet attained in the Rocky Ford Cantaloupe. When vines of some varieties are entirely killed by rust and blight within two weeks after the shipping season, these vines are green and continue to blossom and set fruit until frost. The Melons run very uniform in size and the exceptionally heavy netting is laced and interlaced over the entire surface, making it an ideal shipper. The flesh is green, shading to salmon about the seed cavity which is unusually small. The meat is solid and fine grained, flavor unexcelled. While a few days later than the Early Watters, it is more prolific. Desirable where there is an excessive rainfall. Prices on page 10.

**917. Netted Rock.** This strain represents the highest possible attainment in Cantaloupe development. It is undoubtedly the heaviest meated Melon of the Rocky Ford type. It produces Melons of uniform standard size, 90 per cent of which are completely covered with a beautiful gray, lace-like netting which with the small seed cavity, are the most essential points in carrying and keeping qualities of the Cantaloupe. The flesh is green, tinted with a delicate salmon pink around the seed cavity, which is the smallest of any strain of Rocky Ford. The flesh is firm but not tough or stringy, and has a sweet, luscious, melting and superb flavor. Prices on Muskmelon on page 10.

**918. Early Watters, Improved.** The earliest of all the Rocky Ford Cantaloupes. It is prolific and usually the first setting is very heavy, most of the fruit ripening at the same time. It is of fine shape and size and inclined to run to solid netting. The flesh is light green and of the best quality. The seed cavity is larger than in the other strains, and does not make as good a shipper, but for home use is very desirable. Not recommended for sections having excessive rainfall as the vines are inclined to rust, but where early Melons are an object or for dry localities, or under irrigation it is the most valuable Cantaloupe. For prices see page 10.

**919. Improved Pollock or Eden Gem.** This Melon is the earliest of the solid net type and very prolific. The color of the flesh varies from green to golden yellow, solid, fine grained and of the finest flavor. This variety is rapidly growing in favor with shippers and is equally desirable for the home garden. Prices on page 10.

**921. Salmon Fleshed Rocky Ford.** This variety has rapidly grown in favor. The flesh is a rich salmon color and fine grained. The seed cavity is unusually small, which accounts for its superior shipping qualities. Very desirable for the home garden. Prices on Muskmelon on page 10.

**915. Northrup's Yellow Meated Japan.** Contains concise information on the raising and care of Muskmelons, Watermelons, Cucumbers, Tomatoes, Squash, etc. It advises as to seed selection, storing and shipping. Will be sent free with orders when requested or mailed to any address for 5c in stamps.

**915. Northrup's Yellow Meated Japan.** This is by far the finest, most luscious and pleasing Muskmelon ever grown. The vines are hardy, permitting earlier planting, very prolific, and produce very large fruits, nearly as early as the smaller varieties. The Melons are nearly round, but deeply ribbed and covered with patches of netting. The skin is yellowish white when ripe. The crowning feature of this Melon is found in the thick, melting, delicious, salmon-colored flesh. It is extremely rich, sweet and highly flavored. We know of no other sort which will give as great satisfaction as our Yellow Meated Japan Muskmelon. For prices see page 10.



**Culture.** Muskmelons delight in moderately rich, light, warm, mellow loam. The seed should be planted in the Spring upon the arrival of settled warm weather. Plant seeds 1 inch deep in hills, 4 to 6 feet apart each way, and as soon as the plants begin to run, remove all but 4 of the most likely ones.

Cultivate and keep free from weeds until the vines prevent. Two to three pounds of seed required per acre.

**912. New Melon, Honey Dew.** Honey Dew is a new type of Melon. It is not a Cassaba, the seed cavity being like the ordinary Cantaloupe. The color is dull white when ripe, size about six inches in diameter from top to bottom and seven to eight inches long, all Melons being nearly the same size. Weight averages eight to ten pounds.

The Honey Dew Melon has no netting, but the rind though thin, is very tough and so close that the excellent flesh is practically sealed up and it keeps in fine condition for two to three months after the crop is gathered. Color of flesh, a rich green from close to the rind to the seed cavity and the flavor delicious to all who enjoy a good Melon. It has the sweetness of honey and the freshness of morning dew.

We recommend sowing the seed in the northern states in pots or cold frames after April 15th, so that established plants may be ready for setting in the open ground June 10th to 20th. See page 10 for prices.

**997. Cassaba Melon.** Cassaba Melons are a little different from both Muskmelons and Watermelons. The skin is smooth and hard, flesh extremely tender, rich, sweet and juicy. Prices named on page 10.

**930. Early Netted Gem.** Slightly oval in form; finely netted, being a light golden hue when fully ripened. Flesh light green in color, melting and luscious in flavor, ripens close to the skin. Prices on Muskmelon on page 10.

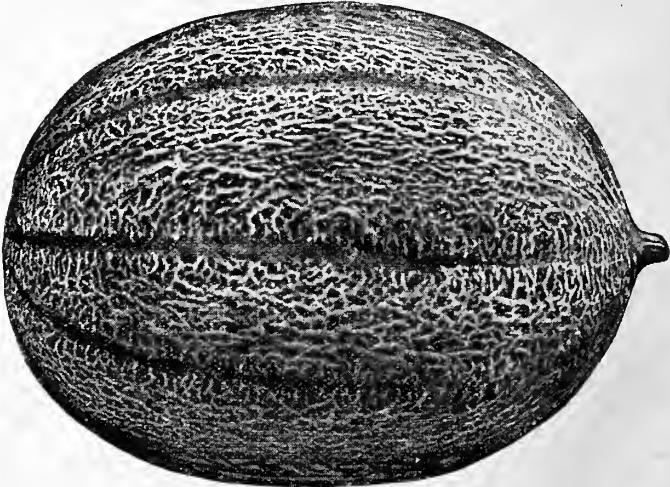
**935. Emerald Gem.** Very early. A richly flavored Melon, salmon colored flesh which is almost crystal in appearance, the flavor being rich, very sweet and luscious. The skin is quite smooth, and of a beautiful deep green color. This variety is very prolific and is one of the most valuable sorts in cultivation. For prices see page 10.

**940. Extra Early Citron or Early Nutmeg.** Slightly oval in form; finely netted, being a light golden hue when fully ripened. Flesh light green in color, melting and luscious in flavor, ripens close to the skin. Prices on Muskmelon on page 10.

**945. Extra Early Hackensack.** Fruit attains a good size, weighing four to six pounds each. The Melons are round, heavily ribbed; skin is green and thickly netted; flesh is light green, of delicious flavor, rich and sugary. It is also a luxuriant, healthy grower, and exceedingly productive. The earliest of all large netted Melons. Prices on page 10.

**950. Hackensack or Turk's Cap.** Fruit very large, round, heavily ribbed and netted. Flesh green, thick, coarse, very sweet and fine flavor. Hardy and very productive. Prices on Muskmelon on page 10.

**970. Osage or Miller's Cream.** Fruit medium sized, oval, slightly ribbed, dark green in color, banded with lighter streaks, covered more or less with shallow netting. The flesh is deep salmon color and very thick, there being but a slight cavity in the center of even the largest fruit; the quality is exceptionally fine. A favorite variety for the later markets. We have taken a great deal of pains to develop the thick, deep, rich colored and fine flavored flesh of this sort. For prices see page 10.



Osage or Miller's Cream Muskmelon.

**975. Paul Rose or Petoskey.** Combines all the good qualities of the Netted Gem and Osage, the varieties from which it originated, possessing the sweetness of the latter with the finely netted appearance of the Gem. Fruit oval, about 5 inches in diameter, shape and general appearance similar to the Netted Gem, of a light green or faint golden hue when fully ripe. Firm flesh, a rich orange red like the Osage, but even sweeter and higher flavored; ripens close down to the rind, with small seed cavity; the most uniformly good of any Muskmelon grown. Best shipper, just the size for hotel and table use. Really has no equal as a market Melon for professional growers and one of the very best sorts for the home garden. See page 10 for prices.

## WATERMELON



Northrup, King &amp; Co.'s Klondike Watermelon. The Earliest Watermelon Grown.

**Culture.** The soil for Watermelons must be light, rich and sandy, for if grown on a heavy soil the quality will be poor, and they will not be so early. When there is no more danger of frost, drop 8 to 10 seeds in hills 8 to 10 feet apart each way, covering about  $\frac{1}{4}$  inch deep. As soon as plants commence to run, thin out to 3 best plants in a hill and cultivate until the vines cover the whole ground. If slow to fruit, pinch off the ends of the growing shoots. Ashes or air-slacked lime sifted on the young plants while dew is on is good to keep the insects out. One ounce will plant about 30 hills, and it takes 4 to 5 pounds to one acre.

## 850. Northrup, King &amp; Co.'s Klondike. (Sold only in sealed

packages.) The earliest. The great objection to the extremely early Watermelons has been their inferior quality. This has been entirely overcome in the Klondike, which is offered with the assurance of being, not only remarkably early, but as sweet, delicate and melting in flavor as any variety grown. The flesh is of a deep scarlet. Rind thin, and on this account is not a particularly good shipping sort, but is emphatically the variety for home use and sale. It will ripen in altitudes where it has not been thought possible to mature a good Watermelon. Prices are given on page 10 for all quantities.

## 855. Northrup, King &amp; Co.'s Kentucky Wonder.

(Sold only in sealed packages.) One just cause for criticism of many of the new Melons is that, for the most part, they have been, at the best, slightly improved strains of some old and well known sort. This cannot be said of Kentucky Wonder. It is distinct, and the Melon itself proves it. In shape it is oblong, attaining a good size; skin dark green and beautifully marked. Flesh a beautiful rich scarlet color, crisp, rich, sugary, always firm and solid, never mealy or tough. See page 10 for prices.

## 860. Dark Icing.

Rind thin, but very strong; one of the best for early shipping. Fruit large, very dark skinned and of attractive appearance. Flesh rich, bright red, and of fine quality. Packet and larger quantities are priced on page 10.

## 865. Fordhook Early.

An extra early Watermelon of large size. The rind is tough, making it desirable for shipping purposes. Flesh is bright red and very sweet. Turn to page 10 for cost of seed.



870. Harris' Earliest Watermelon. Sweetest, largest early Melon. Melon is oval to oblong; beautifully striped with green and gray; bright red flesh, which is sweet, tender and delicious. It is the Melon for everybody to grow who wants to be first in the market with fine large Melons weighing 20 to 30 pounds. Values of seeds are listed on page 10.

875. Ice Cream or Peerless. Rind thin, light mottled green. Flesh bright scarlet. Solid to the center. Sweet as honey. Prices on page 10.

880. Kleckley's Sweets. The finest of all medium early Watermelons for home use. The rind is too thin and tender to stand long distance shipment. The fruits are uniform in size, oblong in form; the skin is a rich dark green; the flesh, bright scarlet; the seeds lie close to the rind, leaving a very large, solid, red core. The flesh is rich, sugary and melting, being entirely free from stringiness. Note the prices shown on page 10.

885. Kolb's Gem. Very large, slightly oval, striped with light and dark green. Rind very hard and firm. Flesh bright red, solid, coarse grained, but tender and sweet. Cost of this variety is shown on page 10.

890. Mammoth Ironclad. Large fruits nearly two feet long. Skin dark green with lighter stripes. Rind thin but exceptionally tough. Flesh bright red, firm, solid and crisp but rich and sugary. Cost of this variety is shown on page 10.

895. Phinney's Early. Very early, quality good; hardy. Bears abundantly, medium sized, oblong melons with thin, smooth rind; flesh pink and tender. See prices on page 10.

900. Sweetheart. Remains in condition for use longer than any other sort. Fruit early, large, oval and very solid. Flesh bright red, tender and sweet. Rind thin, but strong, making it a good shipper. Prices are given on page 10.

905. The Dixie. This Watermelon is the best shipping Melon grown, being even larger, earlier and far more productive than the Kolb's Gem, which has heretofore been considered the best Melon for shipping. On page 10 are listed prices for all quantities.

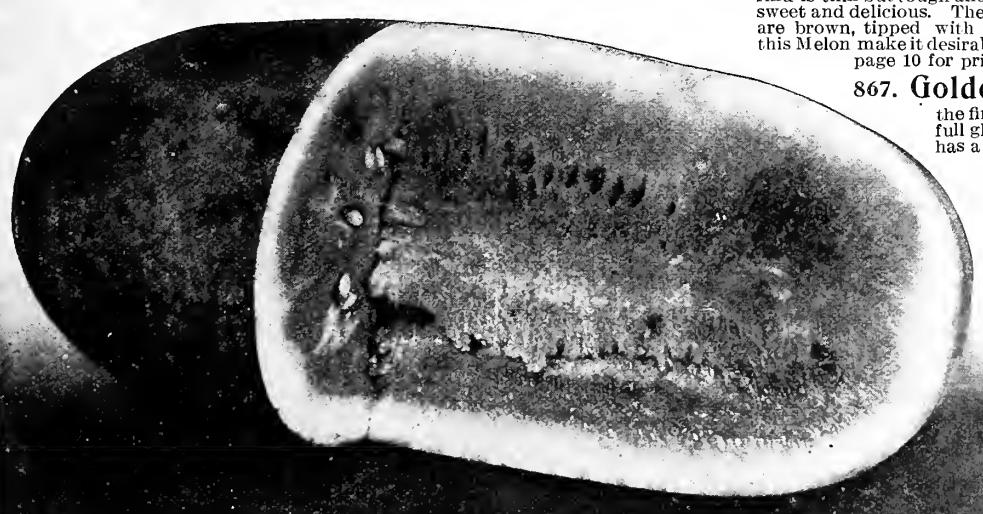
908. Tom Watson. A large, oblong Melon, the skin of which is dark green, with thick netting on the entire surface, quite distinct from other varieties. It averages 18 to 24 inches long and 10 to 12 inches in diameter and weighs 50 to 60 pounds. The rind is thin but tough and flesh a bright, attractive red color, crisp, sweet and delicious. The heart is large with no core. The seeds are brown, tipped with white. The appearance and quality of this Melon make it desirable for both home and market use. See page 10 for prices.

867. Golden Honey. A beautiful, golden-fleshed Melon, one of the finest ever tasted. The flesh is a beautiful glistening amber yellow, very tender, and has a most delicious flavor. It is medium early, of uniform large size, oblong shape and of handsome appearance. The rind is light green, with mottled stripes. Some are more or less prejudiced against a yellow-fleshed Melon, but this dislike will disappear once the Golden Honey is tasted. This Melon has no hard core or stringy sections. The rind is thick and the seeds are large and white, some having a small black tip. Refer to prices on page 10.

910. Citron for Preserves. Fruit round and smooth. Is not eaten raw, but is used for making a very clear, transparent preserve of peculiarly fine flavor. Flesh, white and solid. Citron seed prices are given on page 10.

## Special Note.

All vegetable and flower seeds sent prepaid except where noted. See page one for general suggestions to customers, parcel post rates, shipping seasons, our responsibility, etc.



Kleckley's Sweets Watermelon.

**1000. Northrup, King & Co.'s Minnesota Red Globe.**



**Sold only in Sealed Packages.** This beautiful strain of Red Globe Onion surpasses all others in earliness, productivity, perfection of shape, uniformity of size, richness of color, and long keeping qualities.

For years we have been patiently working to improve our Red, Yellow and White Globe Onions, not only by reducing the size of the neck, but also rounding off the projecting bottom, while at the same time giving due attention to the shoulder of the bulb. This has resulted in a true globe-shaped Onion of great solidity and long-keeping qualities; the very small neck not only prevents water-logging, rot and shrinkage, but also insures early maturity and perfect ripening down.

The color of Minnesota Red Globe is a deep blood-red, extra dark, while the surface is smooth and glossy. The flesh is white, tinged with light purple, fine grained and unsurpassed in flavor.

Many of the largest growers in the United States have annually used our Minnesota Red Globe Onion seed for more than a decade, convinced that Northrup, King & Co.'s strain is unequalled for the North.

For a long time Onions have been the biggest money-making crop for the farmer. It is true that the Onion market has its ups and downs, like all produce, but at the average price of about 65c per bushel in the Autumn, and the ordinary yield of 400 to 500 bushels per acre, onions yield highly satisfactory returns to the grower. One often reads glowing accounts of enormous Onion profits, yields of 600 to 1,000 bushels are not unknown. With intensive cultivation, experience and skill these yields are within the reach of all in a normal year.

Everywhere globe Onions bring the best prices and since our Minnesota Red, Yellow and White strains are the most highly developed of all globes we confidently recommend them to growers who want Onions that will top the market.

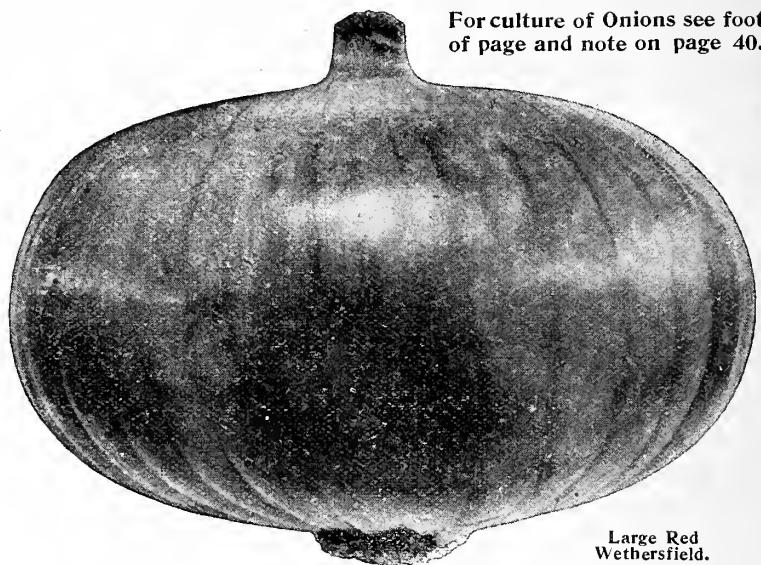
A sound, well-ripened Onion crop can be put away in the Autumn and held for 6 to 8 months under suitable conditions with a shrinkage of not much more than a pound per bushel per month. Experienced growers are careful, however, to plant a select strain of seed which has been bred to produce long-keeping, perfectly ripened bulbs. Consequently the demand for our Minnesota strains is continually increasing, many growers now place their orders a year in advance.

Prices for Northrup, King & Co.'s Minnesota Red Globe Onion are given on page 10. The 1917 onion seed crop was short and customers are advised to place their orders early.

**This variety is early, productive, rich in color and of uniform size.**

**ONION RED VARIETIES**

For culture of Onions see foot of page and note on page 40.



Large Red Wethersfield.

**1085. Southport Red Globe.**

In all markets, globe Onions are in greatest demand, being of such shape there is practically no waste. The Onion which is perhaps the best known throughout the United States is the Southport strain. The Red Southport is perfectly globe-shaped and very handsome in color. The Onions measure from two and a half to three and a half inches in diameter, and are very uniform both in size and shape. Our seed has been selected to thin neck plants which ripen down to a hard, solid ball, producing the largest proportion of marketable Onions. They are also good keepers. The globe varieties, as a rule, yield the largest crops, from 800 to 1,000 bushels an acre being reported frequently. The Red Globe meets with the greatest demand in the Northwest. Packet, ounce and pound prices are listed on page 10.

**1025. Large Red Globe.**

A handsome, dark red, globe-shaped Onion. It averages three inches in diameter and nine to ten ounces in weight. The bulbs have thin necks, which ripen down forming a hard, solid, globular bulb. This is a fine strain which will please all who grow it. Prices are quoted on page 10.

**1015. Large Red Wethersfield.**

Very popular, a sure and heavy yielder; the best keeper, grows to an immense size, solid, oval-shaped flattened on top; skin purplish red, smooth and glossy; flesh white, slightly tinged with pink, strong flavored. The best variety for poor or dry soil. Note the prices on page 10.

**1020. Extra Early Red Flat.**

A medium sized flat variety, good yielder. Ready for use about two weeks earlier than Large Red Wethersfield. Fine grained and mild in flavor. Very desirable for early marketing. Best where seasons are very short. Good keeper. Page 10 shows the values for all quantities.

**1105. Red Bermuda.**

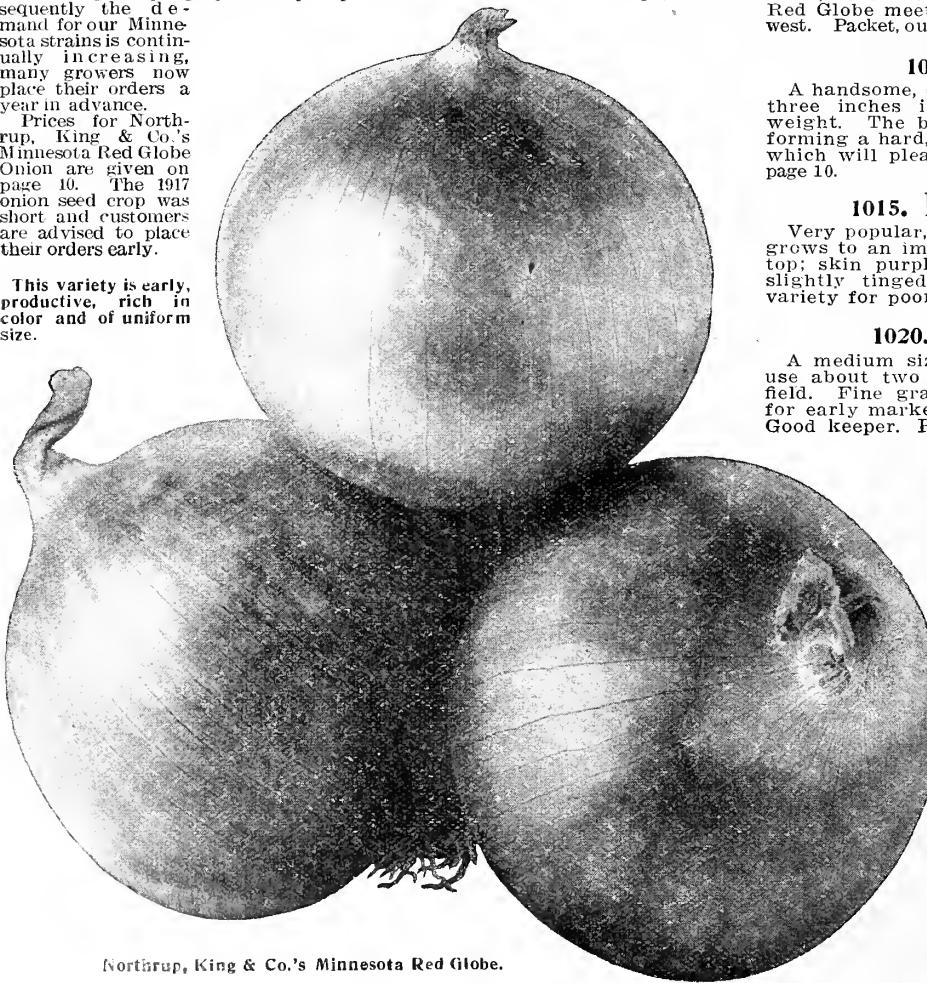
Bulbs of this variety are similar in form and early ripening to the Bermuda White, but grow larger in size, ranging from three to four inches in diameter; very flat and of a light pink color. The flesh is white, slightly suffused with pink. Turn to page 10 for prices.

**Culture.**

Soil for Onions should be rich in humus and plant food. Fresh stable manure and barnyard litters are entirely out of place on the Onion field. They are usually loaded with weed seeds and will interfere very much with tillage. Compost heaps will destroy the weed seeds and put the manures in such condition that they will readily mix with the soil. Manure from sheep sheds or pig pens applied with a spreader before the ground is plowed in the Fall makes excellent fertilizer for Onions because it is usually comparatively free from litter and foul seeds. See page 40.

We especially recommend our Sterling Fertilizer for this crop. See page 109 for description and prices. This should be applied at intervals during the season.

**All vegetable and flower seeds sent prepaid except where otherwise noted.**



Northrup, King & Co.'s Minnesota Red Globe.

## ONION

## YELLOW VARIETIES.

## 1010. Northrup, King &amp; Co.'s Minnesota

**Yellow Globe.** Sold only in sealed packages. We have for years been working on the popular Yellow Globe Onion to bring it to the same degree of perfection attained by our Minnesota Red Globe and we now feel that we have succeeded in producing a type of Yellow Globe unequalled by any other strain in existence. It is a large globe-shaped Onion of the same general characteristics as our Minnesota Red Globe and should prove very satisfactory to the grower. If yellow Onions are preferred, try this strain. Prices for all quantities are quoted on page 10.

## 1080. Northrup, King &amp; Co.'s Prize Taker.

## Sold only in Sealed Packages

This Onion has become a great favorite on account of its large size and great solidity. It is perfectly globe-shaped, with straw colored skin; the necks are very small and the Onions always ripen up hard. An excellent keeper, exceedingly fine flavor, grows to an enormous size, Onions weighing five pounds having been grown from seed the first year. Prices for this strain are given on page 10.

**1095. Southport Yellow Globe.** Very similar to the Southport Red Globe, except that it averages a trifle smaller and matures a little earlier. The skin is a rich brownish yellow; the flesh white, crisp and fine grained. Great care has been given to the selection of our seed, so as to give uniformity of size, shape, small necks and heavy yield. All quantities priced on page 10.

## 1120. Long Keeping Australian Brown Onion.

This remarkable Onion is of medium size, wonderfully hard and solid and most attractive for market, both in form and appearance. It is extremely early in ripening and makes no stiffnecks or scallions. Every seed seems to produce a good-sized Onion, and the bulb begins to form very quickly when the plant is not over 3 inches high. Planted with the Red Wethersfield it will average nearly four weeks earlier, and ripen off more uniformly. It has the reputation of keeping indefinitely, and we think from its firmness and hardness that it will keep in good condition longer than any other Onion known. The color of the skin is a clear amber-brown. These Onions have been known to keep nearly a whole year in good condition, and on this and other accounts the strain will commend itself to onion set growers, who often lose heavily in carrying their crop because the sets do not "keep." This seed is sold at prices shown on page 10.

**1035. Yellow Danvers Flat, or Round.** Very productive, very reliable, small neck; thin, pale yellow skin. Flesh white, fine grained and mild. See page 10 for prices.

**1040. Yellow Globe Danvers.** The bulbs are large and globular, with very thin necks; rich orange-yellow color. An enormous yielder and a fine keeper. Flesh white and mild. Note the prices given on page 10.

## 1045. Yellow Strasburg or Dutch.

Later, darker in color and more flat than Yellow Danvers Flat. Flesh pure white and of mild flavor. The best variety to grow for sets, and is a splendid keeper. List of prices shown on page 10.

## Buy Early

Seed of high-grade Yellow and Red Globe Onion is in unusually short supply this season and growers will probably be unable to obtain enough for their needs unless they buy early. We urge customers to see their dealers and place orders for N. K. & Co. seed as early as possible.

## Special Notice.

Those intending to sow one or more acres of Onion seed this season should

ask for special prices on large quantities of seed. Be sure to state varieties wanted and quantities of each.



Sold only in Sealed Packages

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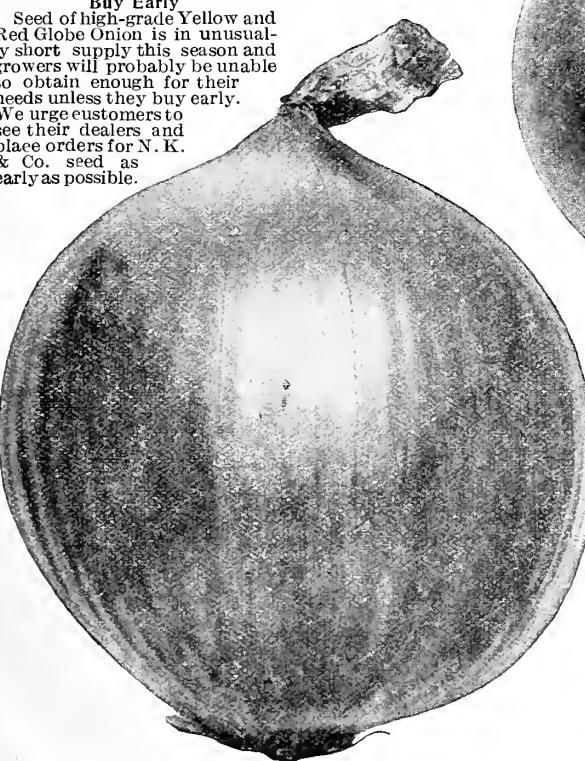
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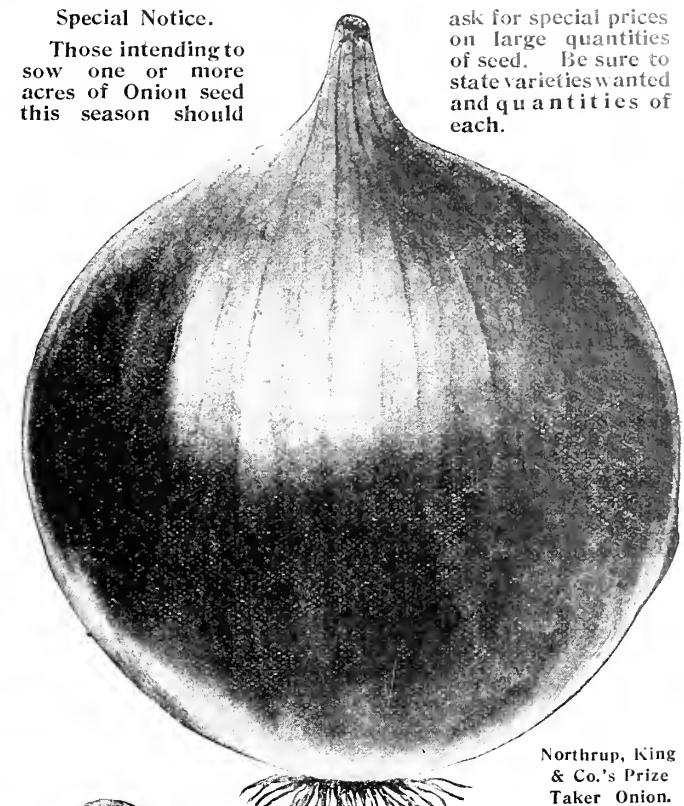
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Southport Yellow Globe Onion.



Northrup, King &amp; Co.'s Prize Taker Onion.

**1093. Ohio Yellow Globe.** A very desirable strain of yellow globe-shaped Onion. The main features which distinguish this strain from others are its distinct and attractive shape; handsome, bright, even color; ripens early and all at once; necks very small and cure down very close. The bulbs are firm, solid and keep exceptionally well during the Winter. The yield, size and quality are all that could be desired in a yellow globe Onion. Although this strain was first introduced in Ohio, the seed we offer is thoroughly acclimated and is suitable for northern conditions. See prices on page 10.

## Fertilizers.

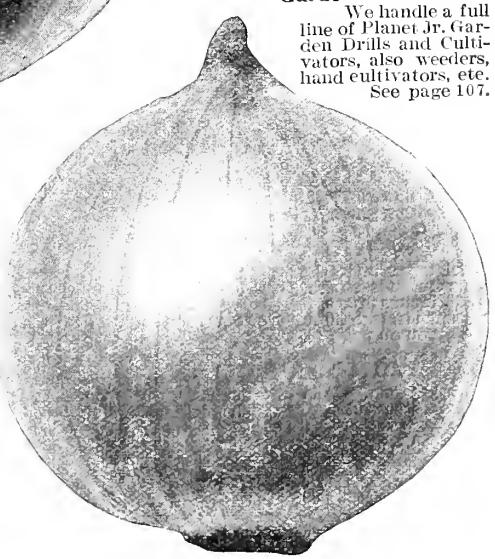
The two principal fertilizers for Onions are Nitrate of Soda and Muriate of Potash; the latter being used on muck lands. Nitrate of Soda furnishes the young plants with the most essential plant food, nitrogen, in soluble form. For fertilizers of all kinds see page 109.

## Garden Tools.

We handle a full line of Planet Jr. Garden Drills and Cultivators, also weeder, hand cultivators, etc. See page 107.

Yellow Globe Danvers Onion.

**Booklet on Onion Culture.** A 24 page treatise on Onion raising from seed to marketing. In concise, intelligent language it tells of soil selection and preparation, fertilizers and how to apply them, cultivation, varieties of seed to sow, the new Onion culture and methods of seeding, weeding, harvesting, storing, marketing and shipping. This little book has assisted many Onion growers to earn increased profits. If your dealer cannot supply you, we will send it free with orders when requested, or will send it by mail, postpaid to any address for 5¢ in stamps.



Ohio Yellow Globe Onion.

## ONION

### WHITE VARIETIES.

**Culture.** Onions thrive well in any good soil, although very sandy soils are apt to dry out to too great an extent. Probably the very best soil for this purpose is old land that has been kept up to a high state of fertility and free from weeds, fall plowed and thoroughly pulverized in the spring.

Sow the seed early in the spring, about  $\frac{1}{4}$  inch deep in rows 12 to 15 inches apart. It is tedious work thinning Onion plants so to avoid unnecessary labor it pays to plant seed of highest germinating qualities; then the seed can be sown a trifle thicker than the Onions are to stand and little thinning will be required.

In the case of large varieties, like Prizetaker and Mammoth Silver King, the young seedlings should be transplanted so as to permit the plants to reach full size and development.

As soon as the plants begin to break through the soil, pass over the rows with a wheel cultivator which works both sides of the row at once and throws a little soil away from the base of the plants and as soon as cultivated they should be weeded. Cultivate and hand weed every two weeks throughout the Summer as it is much easier to handle the crop in the Fall when entirely free from weeds.

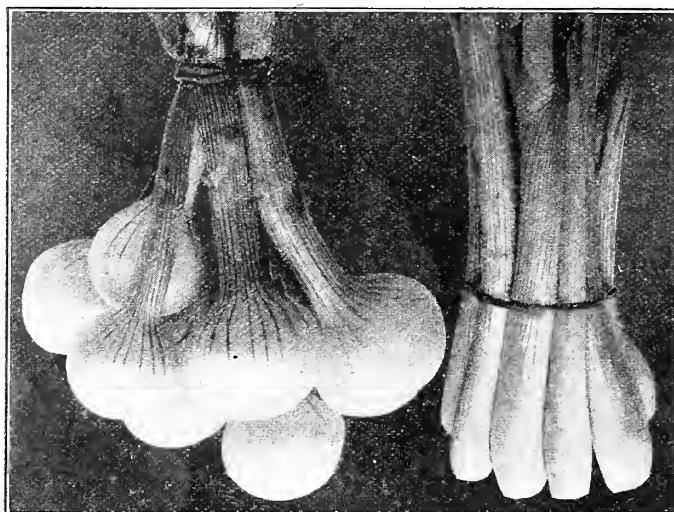
One oz. of seed for 100 feet of row; 5 to 6 lbs. seed per acre.

#### 1005. Northrup, King & Co.'s Minnesota

**White Globe.** Sold only in Sealed Packages. White varieties are the mildest in flavor of any of the Onions and are, on this account, often preferred for family use. Our Minnesota White Globe is the most perfect in shape of any White Globe strain. Most White Globe stocks are marred by dark, rusty streaks. Our Minnesota White Globe is almost entirely free from this blemish and is the purest in color of any White Globe type. This is in every way the finest White Globe Onion in existence. Prices not known when this page was printed. See page 10 for January prices.

**1090. Southport White Globe.** command the highest market prices when they are true globe-shaped and free from stain. Our Southport White Globe Onion meets these requirements, having a thin skin of purest whiteness. The flesh is crisp, fine grained, very white and mild. As soon as ripe, the bulbs should be stored in a cool, dark shed or dry cellar. Supply limited. See page 10 for prices.

**1100. Crystal White Wax Bermuda.** This new variety is a large pure-white, flat Onion. During the last few years it has become very popular with the large growers of Onions in the South, especially in southwest Texas. It does very well under northern conditions and produces one of the mildest and sweetest of them all. It is very fine for slicing, the color being so clear and pure. The best seed is produced in Tenerife, Canary Islands. Our stock is genuine, but limited. Prices on page 10.



White Bunching Onions.

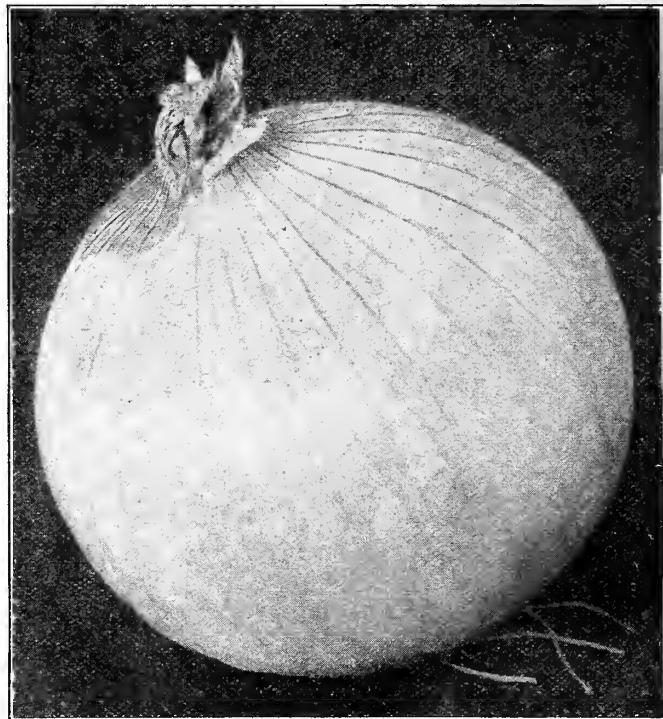
White Welsh Onions.

**1032. White Bunching.** An extra early, round, white variety maturing large, snowy-white Onions of very fine quality, long before the other sorts are ready. For early bunching or using green, it is unsurpassed. See page 10 for prices.

**1033. White Welsh.** A very hardy perennial variety of Onion used only for bunching or early green Onions. Much superior to the Egyptian Onion, which grows a tough woody stem. This Onion is entirely free from this objection. Sow seed thinly in rows 12 to 16 inches apart. Perfectly hardy and require no mulching. Seed may be sown in late Summer or early fall months for early spring Onions. Prices are given on page 10.

**1030. White Barletta.** This variety is more distinct on account of its earliness. It is earlier than the White Queen. It is of a beautiful waxy white color and grows  $1\frac{1}{4}$  inches in diameter and  $\frac{3}{4}$  of an inch thick, with finely formed bulbs, slightly flattened at the top. Its earliness will highly recommend its use as a substitute for onion sets. An excellent bunching and pickling sort. Turn to page 10 for prices.

**1125. Mammoth Silver King.** In appearance, the most striking Onion grown. We hardly know which to commend the most, its large size, symmetrical appearance and beautiful, silvery flesh or its sweetness, tenderness and mild flavor. These qualities make it the best for exhibition and fancy high-priced trade. Not recommended for the extreme North except for bunching. Values quoted on page 10.



Northrup, King & Co.'s Minnesota White Globe Onion.

**1110. White Bermuda.** in form. The color is not a clear white, as in our American varieties, but rather a pale straw; flesh crisp, solid and mild in flavor. The plants are extremely thin-necked, insuring even and early ripening. Note the prices, page 10.

**1055. Paris White Silver Skin.** An early, small, round, white variety. Excellent for bunching and pickling. For prices, see page 10.

**1058. White Lisbon.** A large, round, fine white Onion of excellent quality. An exceptionally early variety, fine for using green or bunching. Seed price on page 10.

**1060. White Pearl or Extra Early Bloomsdale.** While originally from Europe this is now fairly entitled to rank as an American variety. It is a pure silvery-white Onion of very quick growth, frequently maturing in seventy days from sowing the seed. Bulbs are flattened, of medium size, with silvery-white skin; flesh crisp and mild in flavor. This variety is largely planted for bunching and for sets. See page 10 for prices.

**1065. White Portugal or American Silver Skin.** Bulbs medium size, ripening early and uniformly, with beautiful, clear white skin; flat, good keeper, delicate and mild flavor. Used largely for pickles, also as a bunching onion. Price for this variety is given on page 10.

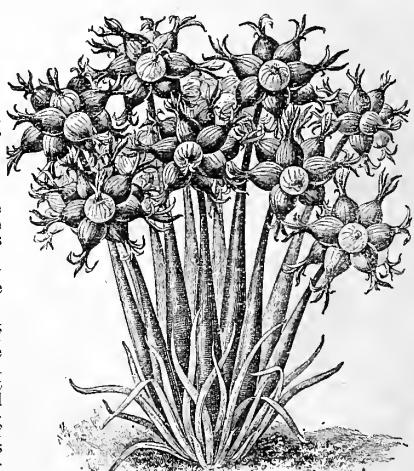
**1075. Northrup, King & Co.'s. Pickling**  
(Sold only in sealed packages.) For early bunching, pickling and sets. Small, hard, round; keeps well; pure white, does not turn green when exposed to the sun. Sold at prices quoted on page 10.

**1070. White Queen.** Small; noted for extreme earliness and mildness of flavor. Bulbs average about an inch in diameter and are much used for pickling. Prices on page 10.

**Egyptian Winter,  
or Red Perennial  
Onion Sets.**

Hardy, for Sept. and Oct. Planting. Order now.

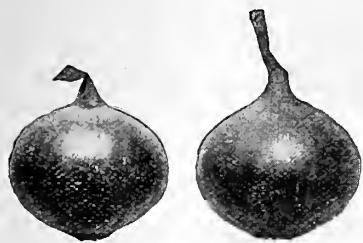
Distinct from other sets, being hardy everywhere. Plant in Fall and leave in the ground all Winter. These sets never form large bulbs but produce the earliest, small, green Onions ready for home or market use weeks ahead of any other, unsurpassed in sweetness and tenderness. A few inches of coarse litter spread on the crowns after the ground freezes, will prevent root heaving. Orders will be filled in September. Values cannot be named at the time of compiling this page. Prices quoted in August, on request. See following page for Onion sets for spring planting.



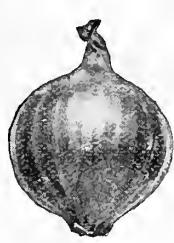
Egyptian Onion Sets.

## ONION SETS

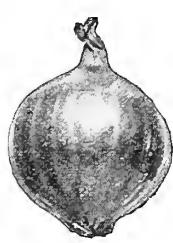
We are Headquarters in the Northwest for Strictly No. 1 Northern Grown Onion Sets.



Red Bottom Onion Sets.



White Bottom Onion Sets.



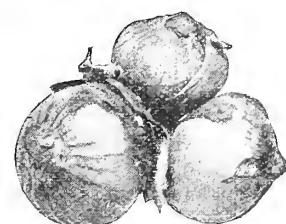
Yellow Bottom Onion Sets.



Yellow Multiplier Onion Sets.



Egyptian or Perennial Onion Sets.



Red Top Onion Sets.

## The Importance of Using Northern Grown Onion Sets.

The planting of Onion Sets is increasing rapidly year after year. They are used for several purposes. The Bottom Onion Sets produce a large Onion ready for market from four to six weeks earlier than can be had by sowing the seed and the product of the set is the same as that obtained by sowing seed. This enables the grower to sell his entire crop earlier in the season, at which time prices usually are higher than when the bulk of the crop reaches market. It also permits the sowing of another crop on the land the same year. Bottom Sets also produce good green Onions on most any soil in half the time it takes to raise them from seed.

Bottom Onion Sets are produced by sowing seed very thickly and they are harvested before they have reached full development. Our sets are small, one inch or less in diameter, dry and unsprouted.

Multiplier Onion Sets are formed through the division of the bulbs into many smaller ones; they are not grown from seed.

Red Top Sets are produced like seed on the top of the stalks. Top Sets make large bulbs one year and top sets the next.

We grow our own Onion Sets which enables us to produce hard, sound, clean sets of the best quality. As they are used to obtain Onions earlier than they can be had from seed, it follows, therefore, that Northern grown sets will produce Onions earlier than Southern grown sets. We clean them thoroughly so as to be free from trash and rubbish, which is so often included with many of the Onion Sets ordinarily sold. In the Spring of the year our sets are hard and sound, while at that time Southern sets are very often dried and shriveled and so lifeless that they either grow slowly or fail entirely to make a bulb.



A Safe Method of Shipping Onion Sets.

## About Prices.

Since the value of Onion Sets fluctuates greatly, our prices are subject to market changes. The prices existing at the time of publication are given on page 11 of this catalogue. Top sets weigh 28 lbs. per bushel, all others 32 lbs. per bushel. All transportation charges on Onion Sets are to be paid by the purchaser, except where quoted postpaid. For methods of packing Onion Sets see below. If you plant Onion Sets in large quantities ask for special prices.

**White Bottom Sets.** These are small, solid and of a beautiful silvery white, a favorite sort in private and market gardens. Prices for all quantities are listed on page 11.

**Red Bottom Sets.** Northern grown. Bright, deep red in color, even and dry. The most popular variety. See page 11 for prices.

**Yellow Bottom Sets.** Produced from seed which makes the finest yellow sets. Fine and dry, medium in size and unsprouted. All quantities priced on page 11.

**Red Top Sets.** These are planted to produce both early green Onions and large eating Onions. We wish to call special attention to the fact that our stock is the genuine Red Top Set, unmixed with Egyptian Winter Sets, which are always cheaper, but practically worthless for spring planting. Turn to page 11 for prices.

**White Multiplier.** These are of a pure silvery-white color which runs up the stem, the flavor is very sweet and mild, superior to green Onions from other sets. They are enormously productive, frequently producing as many as twenty Onions in a single cluster from one bulb planted; of excellent quality and size for bunching. Ready for delivery on or about June first. Prices shown on page 11.

**Yellow Multiplier.** Often preferred on account of their earliness. Late in June they are fully ripe, and can be gathered. They are very productive, five to fifteen bulbs growing from one bulb set out. Refer to page 11 for price on any quantity.

**Egyptian Winter or Perennial Onion Sets.** See page 40. **Garlic.** For description see page 32. Prices given on page 11.

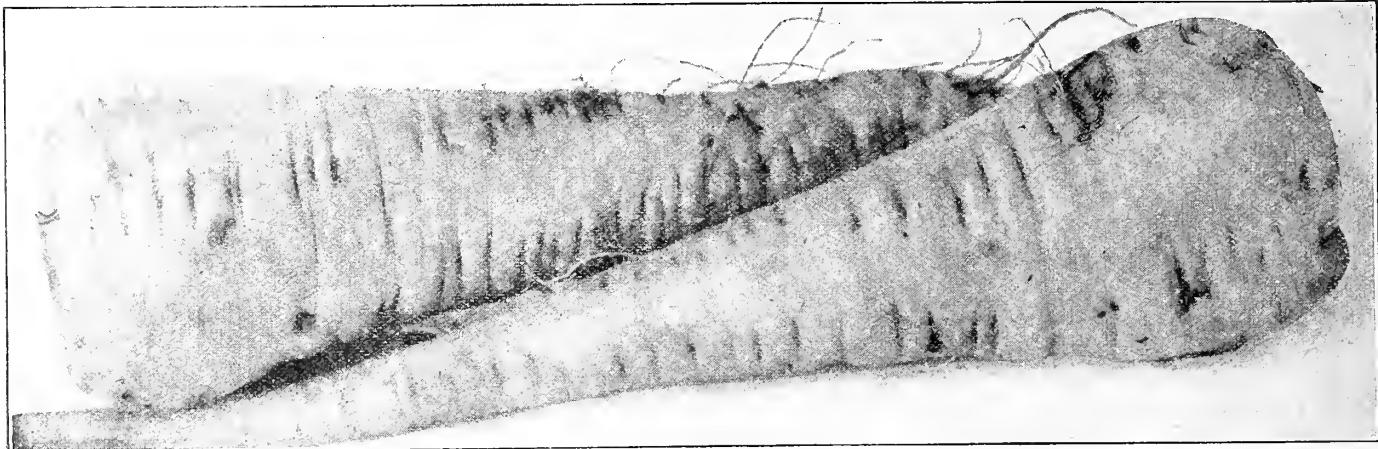
## How We Pack Onion Sets.

We will pack our Onion Sets in any way our customers desire, in bags, baskets or barrels. Prices named are based on the use of bags. If desired in barrels, we will pack three to four bushel orders and upwards at no additional charge. In our opinion the best, safest and cheapest method is to ship in bushel baskets. These will be furnished at an additional charge of 20c per bushel. In this way they carry safely to any part of the United States. The package is easily handled and perfectly ventilated, the sets are not crushed and the basket can always be found of use to the purchaser. Large buyers of Onion Sets should write us for special prices.

**Culture.** Soil requirements the same as for Onion seed. Place the Onion Sets 3 to 4 inches apart, according to size, 3 inches deep, in rows 1 foot apart. It is customary to furrow out the soil with a little hand plow early in the Spring. Set the Onion in this furrow right side up and cover with a garden rake and if the soil is dry it should be well firmed over the sets; 380 to 480 lbs. of sets required for an acre.

All Onion Sets shipped at purchaser's expense except where quoted postpaid.

In towns throughout the Northwest reliable merchants sell Northrup, King & Co.'s Onion Sets and all other items listed in this catalogue. Insist on Northrup, King & Co.'s Onion Sets and seed. If your dealer will not supply you, write us and your order will be given prompt attention.



Northrup, King &amp; Co.'s Sweet Marrow Parsnip.

## PARSNIP

**Culture.** Work the soil very deep and pulverize the surface thoroughly. Sow the seed in early Spring,  $\frac{1}{4}$  of an inch deep, in rows 12 to 18 inches apart.

As soon as the young plants appear, cultivate and hand weed them, and when 3 inches high thin to 6 inches apart in the row.

Cultivate sufficiently to keep the soil loose throughout the season. Freezing improves the quality of Parsnips for table use, so it is customary to take up in the Fall when the ground begins to freeze what will be needed for winter use, leaving the remainder to winter over in the ground, or better still, pitting them as is often done with other roots so that access may be had to them at any time.

One oz. of seed for 200 ft. of row; 5 lbs. seed required for an acre.

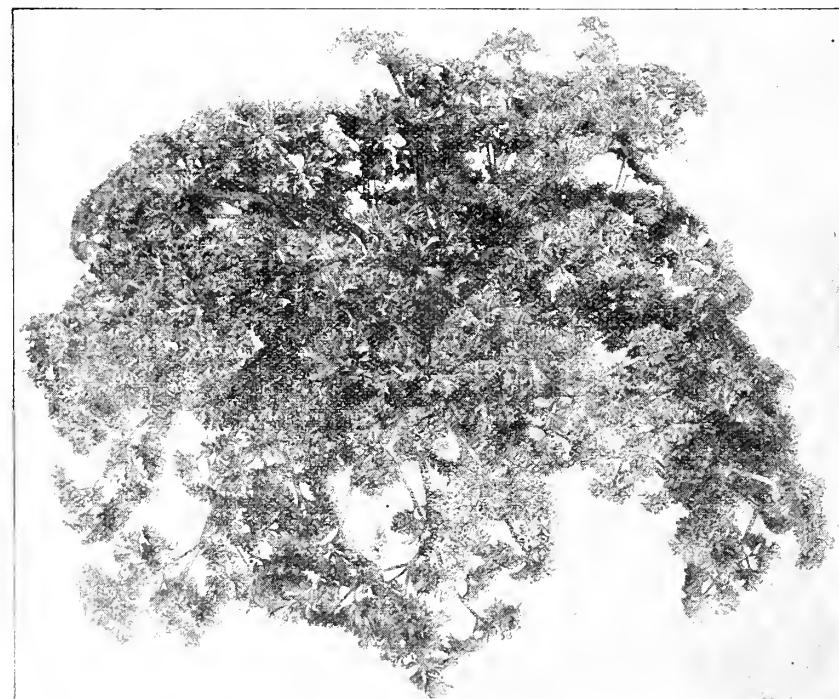
### 1135. Northrup, King and Co.'s Sweet Mar-

**row Parsnip.** (Sold only in sealed packages.) This fine new Parsnip of English origin is offered with full confidence that it will become a prime favorite with all who use it. It is very fine grained and exceedingly sweet, while the peculiar "Parsnip" flavor is fully preserved. The roots are unusually smooth and attractive in appearance. The best of all Parsnips for the market or private garden. Prices for all quantities are given on page 11.

**1140. Guernsey.** (Improved Half Long) A greatly improved strain. The roots do not grow so long as the Hollow Crown, but are of greater diameter and more easily gathered. It is a very heavy cropper. The roots are very smooth; the flesh is fine grained, of most excellent quality. See page 11 for prices.

**1145. Improved Hollow Crown Parsnip.** Our stock of this old time favorite is very smooth and fine. None better anywhere at any price. Values quoted on page 11.

You will find the surest-growing seed of the hardiest varieties of vegetables in the attractive Northrup-King seed case. If you don't find Northrup, King & Co.'s Sterling Seeds in your dealer's store, write us and your order will be given immediate attention.



Dark Moss Curled Parsley.

## PARSLEY

**Culture.** Sow seed in shallow drills in the early Spring for border or in rows 12 to 18 inches apart; and thin the plants to 4 inches.

Cultivation should be frequent and weeds kept removed.

One oz. of seed will sow 150 feet of row; 6 lbs. of seed required for an acre.

### 1150. Dark Moss Curled.

The leaves are of an extra dark green color. It is very productive, and on account of the densely curled character of its leaves a quantity can be gathered in a short time. Prices on parsley seed are listed on page 11.

### 1155. Double Curled.

Fine, dwarf, crimped leaves. See page 11 for prices.

### 1160. Extra Curled or Emer-

**Dwarf, ley.** This is a most beautiful variety. The moss-like leaves, of a handsome bright green color, are finely curled. Prices are given on page 11.

**1165. Fern Leaved.** This is exquisite in form and color—invaluable as a garnishing plant, and suited for mixing with dwarf ornamental foliage plants in the flower garden. Cost of this seed shown on page 11.

### 1170. Plain, or Single Parsley.

Leaves flat, deeply cut but not curled. It is very dark green, is hardy and of excellent flavor, and for these merits is often preferred. It is used more for flavoring while the curled sorts are used for garnishing. Note the prices, page 11.

### 1175. Turnip Rooted, or Ham-

**Rooted, bur g Parsley.** The edible portion is the fleshy root, which resembles a small Parsnip, and is esteemed for flavoring soups, stews, etc. The flesh is white, a little dry with the flavor of Celery. The foliage is the same as the plain Parsley. Price of this variety named on page 11.

All Northrup, King & Co. seed is carefully tested for purity and germination before it leaves our warehouse. The seeds of each sample are counted, weighed, and sprouted with scientific thoroughness. By sowing seed of this kind that you know will grow, cultivation is made easier and results most satisfactory.



Turnip Rooted Parsley

## PEAS

### HARDY, NORTHERN GROWN STOCK.

Our Peas are Northern Grown. They are produced at an altitude of 5000 feet or more, making them the earliest, hardiest, and most productive Peas obtainable. In addition, the localities where they are raised are free from insects and other damaging pests. For many years we have made a specialty of Peas and now grow thousands of acres where a few years ago we grew hundreds. Much skill and knowledge is required to grow Seed Peas properly and we employ experts of long experience to handle our crops. Our Peas are carefully grown, kept true to type, are bright, handsome, sound and of strong germination.

### EXTRA EARLY ROUND SEEDED VARIETIES.

These sorts are most largely grown by gardeners for the early market. They ripen more uniformly than any other Peas and where the stocks have been properly bred and kept rogued, from 75 to 80 per cent of the pods can be stripped from the vine at the first picking, enabling the grower to secure the highest prices. Round seeded varieties are not as sweet as the wrinkled sorts. Round seeded or smooth Peas weigh 60 lbs. per bushel.

#### 1280. Northrup, King & Co.'s Summit Extra Early.

(Sold only in sealed packages.) Height  $2\frac{1}{2}$  to 3 feet. Seeds white. The "Summit" holds the record as the earliest and most even in maturity of the white seeded varieties. A great favorite with gardeners for early market. The entire profit on the crop sometimes depends on being able to market Peas early before the larger and later varieties are ready. See page 11 for prices.

**1285. Alaska.** Height  $2\frac{1}{2}$  feet. Very early and exceedingly productive, bearing four to seven pods which are filled with medium sized, bright bluish-green Peas of good flavor. Prices on page 11.

**1290. First and Best.** Height  $2\frac{1}{2}$  to 3 feet. Standard, white seeded extra early. Vines are vigorous and hardy, bearing from three to seven pods, each containing from five to seven medium sized Peas of good quality. Prices on all quantities on page 11.

### EXTRA EARLY DWARF WRINKLED VARIETIES.

These require no brushing and are in large demand for family use. All of the following sorts are early, being but a few days later than the Round Seeded Sorts. Wrinkled Peas weigh 56 lbs. per bushel, according to the Minnesota State Law.

**1330. American Wonder.** Height 10 inches. This variety heads the list of the well known Champion of England and the Little Gem and has the merits of both, together with features not found in either of the parent varieties. The vines bear a great abundance of good sized pods containing five to eight large, exceedingly sweet, tender and well flavored Peas. This is the earliest of the dwarf, wrinkled varieties, being nearly as early as the smooth sorts. The seed is medium sized, wrinkled and pale green. These Peas are especially adapted to family use as they require no brush or other support. Prices on page 11.

**1335. Little Gem.** Height 16 to 18 inches. The vines are of dwarf growth and produce an abundance of round, well filled pods  $2\frac{1}{2}$  to 3 inches long, only three days after the American Wonder. The Peas are green, wrinkled, of sweet, delicious flavor and excellent quality. One of the best for family use. It remains fit for use longer than the American Wonder and Nott's Excelsior, and is thought by many to be sweeter. See page 11 for prices.

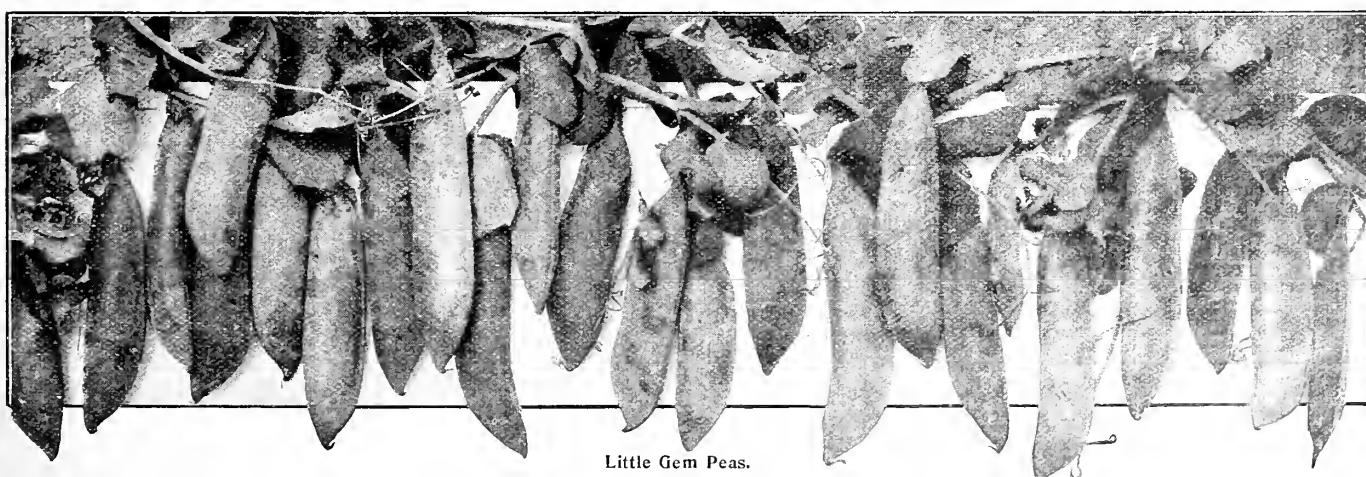
**1338. Little Marvel.** An extremely valuable variety, especially suited to small home gardens, and is also a splendid variety for early market gardening. It matures very early and produces large crops. The vines grow about 15 to 18 inches in height. The pods are dark green, fair sized, produced in pairs and are closely filled with seven to eight Peas of extra fine flavor. Prices on page 11.

**1340. Nott's Excelsior.** Height 14 inches. This sort resembles the American Wonder but grows a trifle taller and the pods are somewhat larger. It is of compact, dwarf growth and is nearly as early as the American Wonder. The pods



average three inches in length and are well filled to the squared ends with green, wrinkled Peas of fine quality and sweet flavor. Peas are priced in all quantities on page 11.

**1342. Richard Seddon.** The pods are deep green, crowded with from 7 to 9 large Peas of very fine color and flavor. Grows from 16 to 20 inches in height. An extremely early type, maturing only a week later than the Alaska, when sown at the same time. A splendid all around early variety. On account of its immense productivity, evenness of maturity, compact well filled pods and excellent color and quality, it is especially desirable for canning purposes. We found many plants in our fields last season bearing 15 to 20 pods, with a total of 100 to 150 large, fully formed, luscious Peas to the plant, proving the immense productiveness of this variety. See page 11 for prices.



### EARLY WRINKLED VARIETIES.

Most of the following sorts are nearly or quite as early as the round seeded extra earlies, but they do not mature so uniformly. This, while making them less desirable for early market purposes, makes them better for family use as they will stand longer in fit condition for the table. They are much sweeter than the round seeded sorts. Wrinkled Peas are sold at 56 lbs. per bushel, complying with the Minnesota State Law.

**1300. Advancer.** Height 2 to  $2\frac{1}{2}$  ft. Seeds green, wrinkled. This variety is a great favorite in eastern markets on account of its superior flavor. The pods are broad and long and well filled to the ends. This sort is extensively used by canners on account of its quality and appearance. It is a very productive and satisfactory variety. See page 11 for prices.

## PEAS

### EARLY WRINKLED VARIETIES.

**1270. Carter's Daisy.** (Early Dwarf Telephone.) Dwarf, large podded, needs no brush. The striking features of the Daisy Pea are its large pods and the way in which they are heaped up in ridges on the short, strong vines. The pods are nearly double the size of American Wonder or Little Gem, and are always well filled with large Peas of most excellent quality. The vines are 16 to 18 inches high, and being strong and thrifty require no support, making it an ideal variety for use where brush or stakes are not available. This Pea is desirable on account of the fine appearance of the pods, and always finds a ready sale. See prices on page 11.

**1304. Dwarf Defiance.** Grows about 2 feet high and matures an abundance of large, dark green pods about mid-season. In production it compares favorably with the taller, later varieties. The Peas are large and of splendid quality, sweet and of fine flavor. Prices on Peas are on page 11.

**1305. Gradus.** (Prosperity.) The earliest wrinkled variety. This grand, large podded, early, prolific variety has won the hearts of market gardeners everywhere. The vines are very vigorous and robust, growing to a height of about 3 feet. It is not only an abundant producer, but bears continually throughout the season. It is exceedingly early for a wrinkled variety, being only a day or two later than the earliest, small, smooth sorts. The pods are very large and are invariably well filled with from six to nine sweet, luscious, tender, wrinkled Peas of large size and delicious flavor. The Peas remain tender for some time after they are large enough to use. See prices on page 11.

**1310. Honey Sweets.** The strong, stiff vines grow from 12 to 15 inches high and require no brush or other support. The pods are similar in shape to the American Wonder but are broader and longer and are borne in greater abundance, the vine being fairly loaded with pods. They are two or three days later than the Wonders but the pods contain more Peas, there being on the average 7 or 8 in each. In flavor they are excellent, sweet as honey, rich and delicious. This is a splendid sort for both home and market use. Prices quoted on page 11.

**1315. Horsford's Market Garden.** Height 2 to 2½ ft. Seeds green, wrinkled. In all respects very similar to the Advancer Pea, but an improvement on that variety in point of productiveness. Flavor very fine. The Peas are rather smaller than the Advancer, but are fully equal in other respects. For prices see page 11.

**1317. Laxtonian.** A new first early Pea of unexcelled value. It is not only early but is of splendid quality and unusually productive. Although it is a dwarf sort, growing only 15 to 18 inches in height, it excels in yield and equals in size of pod, the Gradus. The pods are deep bluish-green, pointed at the end, generally borne singly and measure 4 to 4½ inches in length. The peas number 7 to 10 to the pod, are large in size and of delicious flavor. The vines are vigorous in growth, deep green in color and require no support. See page 11 for prices.

**1325. Thomas Laxton.** Large podded, extra early Pea. This fine early Pea was raised by crossing Gradus with the Alaska. In earliness the Thomas Laxton is only two or three days behind the Alaska, but the pods are very much larger, containing on the average seven or eight large, sweet, wrinkled Peas of the very richest flavor. The vines attain a height of from three to three and one-half feet. It is of harder constitution than the Gradus, and is earlier and of darker colored pod. In flavor this Pea is unsurpassed. See page 11 for prices.

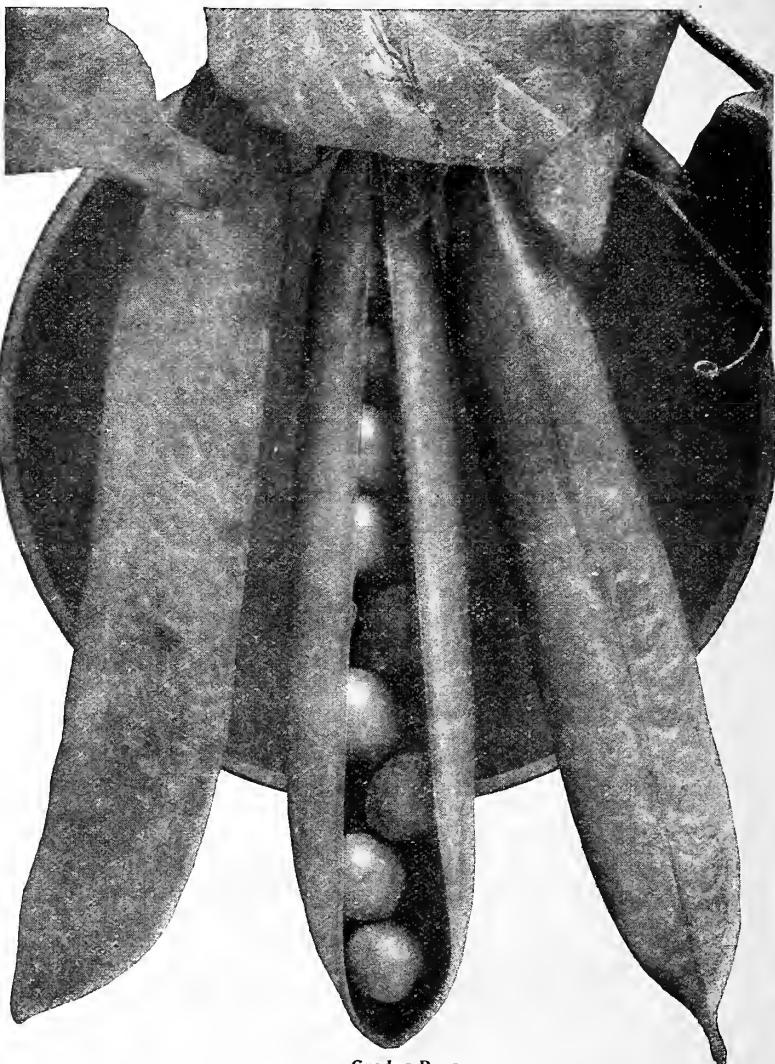
### MAIN CROP VARIETIES.

Planted at the same time as the extra earlies or dwarf varieties, these come into bearing when other sorts are gone. For the most part they stand a long time fit for table use, and as a rule they are, except when noted, sweeter than the early sorts. The pods are large and they stand longer in fit condition for use. Wrinkled Peas are sold at 56 lbs. per bushel in compliance with the Minnesota State Law.

**1352. Alderman.** This is a very large podded Pea, very robust and vigorous, producing pods of the largest size. The pods are even larger and longer than the average large podded sorts, and are well filled with large Peas of most excellent flavor. In habit, the vines are strong and branching, bearing rich, deep-green, straight, handsome pods averaging 4½ to 5 inches in length, pointed at the end. This variety belongs to the tall growing main crop of Peas. The vines are from 3½ to 4 feet in height. A point of superiority which must not be overlooked is the unusual flavor and quality of the Peas. As is true of most wrinkled varieties they are delicious, but the Alderman is of a quality surpassing many of the others. Also a good sort for shipping. Peas are priced on page 11.

**1360. Champion of England.** 4 to 5 feet in height. This has been considered for a long time the standard main crop or late Pea for summer use. From this variety has sprung the whole race of green wrinkled Peas. The vines are very vigorous and productive, bearing an abundance of large, well-filled pods. The Peas are light green, wrinkled, of fine quality and delicious flavor. Hardly any Pea is sweeter than this. See prices on page 11.

**1265. Colossus.** New, sweet wrinkled, mammoth podded Pea. This splendid Pea is of the same large podded type as the Telephone, but the pods are larger and the Peas sweeter. Excelling, as it does, in these particulars the well known sort mentioned, the Colossus Pea surpasses all other large-podded varieties in another particular, that of productiveness. In other words, a pint of Colossus Pea pods will yield as many shelled Peas as a quart of most other sorts; a bushel as many as two bushels. Quality is always to be preferred to quantity, but a Pea which will give better quality and larger quantity is the Pea to plant; that Pea is the Colossus. We urge early orders, and that at least a small quantity of these Peas be included with every order, as far as possible. Prices quoted on page 11.



Gradus Peas.

### VARIETIES.

**1370. Everbearing.** Height 2½ to 3 feet. As the name indicates this variety continues long in bearing and is very prolific. It is probably the best sort for late Summer and Autumn use. The broad pods, which are of a nice green color, average three inches in length. The Peas are very large, green, wrinkled and of excellent quality. They cook very quickly, are tender and of superior flavor. Excellent for family use. See page 11 for prices.

**1275. Potlatch.** A fine, new variety of great merit. The vines are vigorous, growing 15 to 18 inches high, with dark green foliage. The long pods are a rich, dark green in color, often measuring six inches in length, with 8 to 9 enormous peas in a pod. The vines are sturdy and the pods are borne in pairs. It is wonderfully productive and the way the Peas shell out is astonishing. Potlatch matures early and is unusually satisfactory to grow. Prices on Peas on page 11.

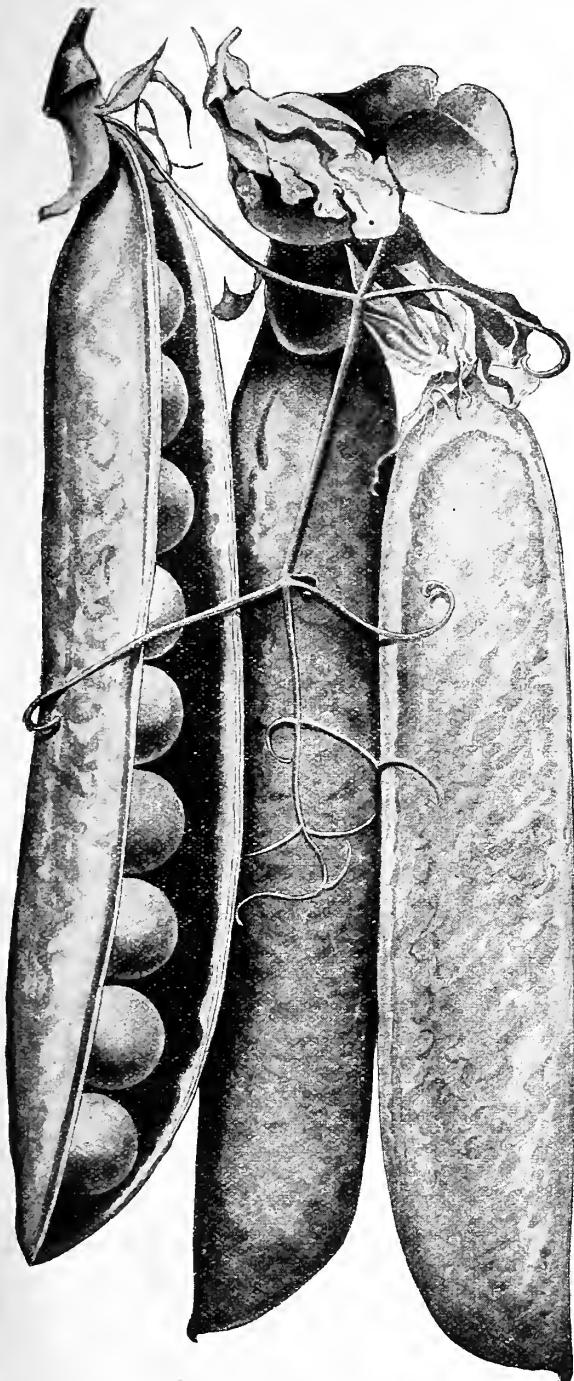
**1375. Stratagem.** Height 20 inches. The foliage is large and the vines strong and robust, requiring no support. It is very prolific and bears many very large, well filled pods containing large, dark green, wrinkled Peas of rich, sweet flavor. Our stock is very fine and of first-class quality. Prices on page 11.

### Culture for Garden Peas.

Sow seed 2 to 4 inches deep in rich soil very early in the Spring and for a succession put in varieties that mature at different periods, or if dwarfs only are desired, sow a few rows every 10 days throughout the season. For hand cultivation sow in rows 15 inches apart, but if grown on a large scale it is best to sow in rows from 2 to 3 feet apart and cultivate them with a horse.

Tall growing Peas may be sown broadcast to advantage upon very clean soil or new breaking. They may be supported with a woven wire fence or poultry netting. Sow in double rows eight inches apart and stretch the wire support between the rows. Fasten securely at each end with posts using stakes between the posts.

Two lbs. of seed will plant 100 ft. of row; 115 to 140 lbs. of seed required an acre in drills, and if broadcast 175 lbs.



Giant Podded Pea, "Teddy Roosevelt."

**1362. Duke of Albany.** Resembles the Telephone in appearance, but the vine is not quite so tall, being  $2\frac{1}{2}$  to 3 feet in height. The pods are larger than the Telephone and produced more abundantly. They measure 4 to  $4\frac{1}{2}$  inches long and are light green in color. Peas are light green and very much wrinkled. Refer to page 11 for prices.

**1400. Dwarf Gray Sugar.** This is an edible podded variety. Vines grow only 15 to 18 inches in height, with purplish blossoms. Sugar Peas are not shelled, but pods are cooked same as string beans. Quantity limited. See page 11 for prices.

**1402. Mammoth Melting Sugar.** This is another of varieties. The pods are picked when the Peas are only half developed and at that stage there is no stringiness, but are sweet, brittle and appetizing. This variety is quite late, growing 4 to 5 feet high and bearing large pods 4 to  $4\frac{1}{2}$  inches long, often curved or twisted. Sugar Peas are usually very scarce, but we have a limited stock of fine quality to offer this year. In very short supply. See page 11 for prices.

Please refer to page one for postage rates on Peas.

## PEAS MAIN CROP VARIETIES.

### 1260. *Teddy Roosevelt.* A Giant Podded Main Crop Pea.

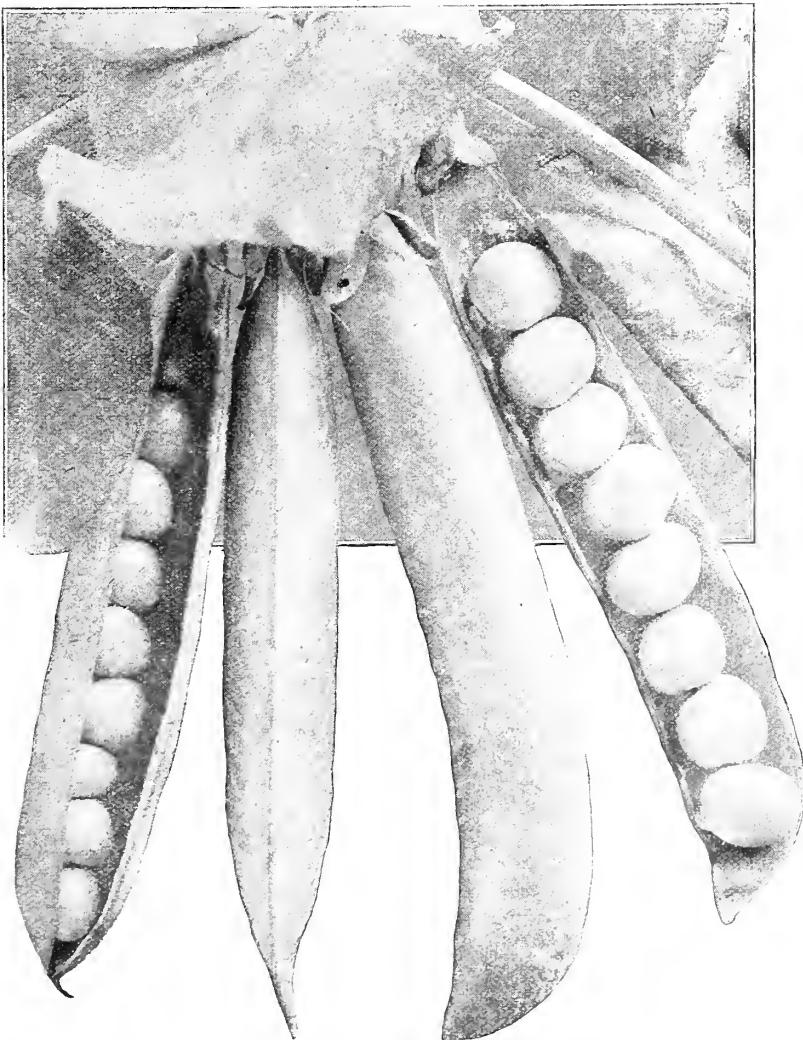
The largest "podder," surest "cropper" and heaviest "yielder" of all the main crop sorts. The Telephone and Stratagem were the first large-podded Peas to be introduced. Naturally they created a sensation because they were advertised widely, and are at present the most largely used in America of any of the large-podded varieties. They have, however, one serious defect; the pods contain very few Peas.

This fault has been remedied in some of the later introductions, and notably so in the *Teddy Roosevelt*. This grand Pea resembles the Telephone in color of pod and foliage, and in habit of growth; but the pods are larger and contain more Peas. A bushel of pods will shell out nearly twice as many Peas as the Telephone. The vines are enormously productive, being completely covered with immense, long pods, well filled with from 8 to 9 large Peas of the richest flavor. This variety grows from 4 to 5 feet high and, as an abundant cropper, is superior to all other sorts.

Nothing in the long line of Peas excels the *Teddy Roosevelt* in richness, sweetness and flavor, and it ought not take a gardener long to figure out that a bushel of pods that will give as many Peas as two bushels of other varieties is the kind to grow. The demand is so great every year for *Teddy Roosevelt* Peas that our stock is usually exhausted early in the season. Prices could not be made when this page was prepared. See page 11 for January price.

**1385. Telephone.** This is now the leading Pea with market gardeners, as it is in all particulars a market garden variety. It comes into bearing fairly early, yields abundant crops of large, fine appearing pods and Peas are sweet and luscious. This variety meets with the ready approval of buyers, when placed on sale and is therefore a popular sort with Pea growers. It is a great cropper, continues long in bearing, and fills the basket quickly. The vines grow about  $3\frac{1}{2}$  to 4 feet in height, are very vigorous and strong and have large, coarse, light colored leaves. Each vine bears on an average seven to ten pods, which are ready for picking in about 65 days. The immense pods are straight, and of fine appearance, and contain eight to nine large, wrinkled Peas, closely packed, tender, sweet and of exquisite flavor. The seed we offer has been carefully selected and is very prolific and will please all who grow this variety this season. Prices on all varieties of Peas on page 11.

**1390. White Marrowfat.** Height  $3\frac{1}{2}$  feet. Grown on account of the great quantities of pods which it bears and for canning purposes. The vines are of strong, sturdy growth but mature the pods quite late. The large, cylindrical, light colored pods are well filled with round, smooth, light yellow Peas of somewhat dry and mealy quality. See page 11 for prices on all quantities.



Telephone Peas.

## PEPPER

**Culture.** Plant seed  $\frac{1}{2}$  inch deep in the hot bed in March, or in boxes in the house, set in rows about  $1\frac{1}{2}$  feet apart each way in the garden about corn planting time. One oz. of seed will produce 1,500 plants.

**1180. Chinese Giant.** An enormous fruiting variety, double the size of Ruby King, averaging 12 to 15 inches in circumference. Notwithstanding its large size, it is very early and very prolific. Plants are healthy, well branched, about two feet high and carry an enormous load of fruit, often having the appearance of being bunched together. Flesh is thick, tender, mild and sweet, and is unexcelled for salad or stuffed as mangoes. They can be sliced and eaten like tomatoes. When ripe the Peppers are a rich, glossy scarlet, making them of unusually fine appearance. Prices quoted on page 11.

**1185. Golden Dawn.** Similar to the Large Bell or Bull Nose, excepting that it is of golden yellow color, and of very sweet and delicate flavor. Refer to page 11 for prices.

**1190. Large Bell or Bull Nose.** A large, early, bright red variety, mild in flavor. Desirable for pickling and mangoes when green. See prices on page 11.

**1200. Long Red Cayenne.** A late variety. Pods are small, bright scarlet, cone shaped and pungent. Are as much used for pickling when green as when ripe. Values of seed are quoted on page 11.

**1202. Neapolitan.** A standard market sort on account of its earliness and productiveness. It is 2 weeks ahead of Bull Nose. The large fruits are light green with thick, mild flesh. As they ripen they turn red. See page 11 for prices.

**1205. Red Cherry.** Fruit cherry shaped, small, round, bright red. Largely used for pickles. Seed prices listed on page 11.

**1210. Red Chili.** Fruit is small, bright red, very hot and pungent. Plants are very productive. Generally used for making Pepper sauce. Cost of seed shown on page 11.

**1225. Ruby King.** The most popular large fruited Pepper. Very prolific. The pods are a beautiful bright red, 5 to 6 inches long by 3 to 4 inches in diameter. Flesh exceedingly thick, sweet, and so mild that it is often sliced as a salad. Splendid for stuffing as mangoes. Turn to page 11 for prices.

**1230. Sweet Mountain.** Similar to Bull Nose, though usually larger in size and longer, of very mild flavor. Much used for mangoes. This variety priced on page 11.

**1232. Sweet Upright.** Fruits are borne stiffly erect. The color when ripe is glowing scarlet both in the tender skin and thick sweet flesh. Prices quoted on page 11.



Chinese Giant Pepper.

## 1245. Early Sugar or Pie Pumpkin.

Small, round, flattened, prolific, deep orange yellow. Flesh fine grained, sweet and of finest quality. A good keeper. One of the best for pies. See page 11 for prices.

**Pumpkin Culture.** For seed sown with corn, plant only one row in five, which, when the vines begin to run, may be omitted in cultivation and thus the plants will not be injured. Use a dibber and plant three to five seeds in every third hill of corn. Plant as a single crop in hills eight feet apart each way. Cultivate with a section of the harrow. Use paris green and lead plaster or wood ashes to control the striped squash bugs. When well established thin to four plants in each hill.

One oz. of seed will make 25 hills; 4 lbs. seed required for an acre.

All flower and vegetable seeds sent prepaid except where noted.

The advantage of using N. K. & Co. seeds is that every lot is so carefully tested for purity and vitality before any part of it is sent to the dealer's store. All N. K.

& Co. seed must pass a rigid test and meet a definite standard of quality. When you buy N. K. & Co. seed you have the assurance that the seeds you plant will give you maximum returns for your labor, under normal conditions.



Connecticut Field Pumpkin.

## PUMPKIN

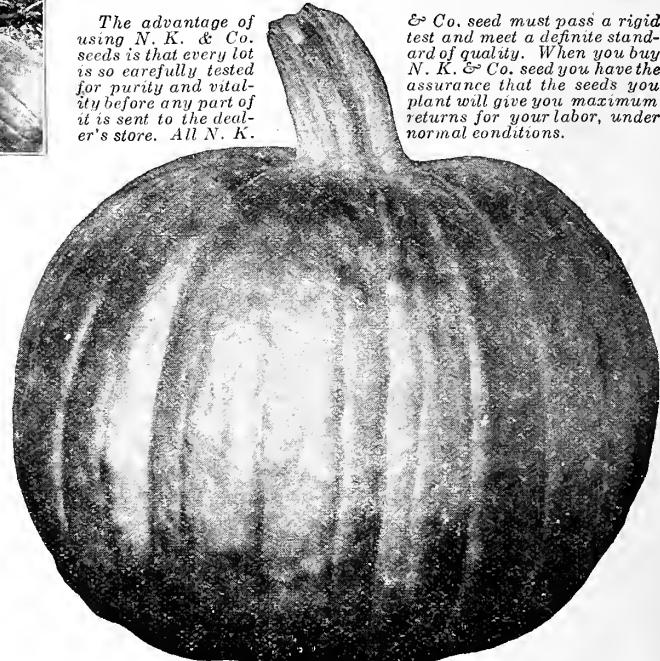
**1235. Northrup, King & Co.'s Mammoth Prize.** (Sold only in sealed packages.) The largest pumpkin grown. Has weighed as high as 225 pounds. A prize winner. The flesh is fine grained and the quality is excellent. The flesh and skin are of a bright, golden yellow color. Notwithstanding its large size it is a fine variety for pies and is a splendid keeper. Prices for seed, listed on page 11.

**1240. Connecticut Field.** An immensely productive, large, orange-colored, field Pumpkin, usually grown for stock feeding, but it also makes good pies. All pumpkin seed prices are given on page 11.

**1250. Japanese Pie.** A crook neck variety. Early. Seeds are marked very curiously. Flesh deep yellow of fine quality. Keeps well. Page 11 shows the prices of this seed.

**1255. Large Cheese or Kentucky Field.** Large, round, flattened, hardy and productive. About two feet in diameter. A fine keeper. Thick flesh of extra fine quality. A fine sort for family and market use. It is also grown quite extensively for stock feeding. Note the price page 11.

**1257 Winter Luxury.** A splendid pie Pumpkin, small, round, about ten inches in diameter; skin finely netted and beautiful golden-russet. The flesh is thick, sweet, tender, of fine flavor, and deep golden in color. The vines are healthy and productive and the Pumpkins keep well during the Winter. Prices named on page 11 for any quantity.



Early Sugar or Pie Pumpkin



# NORTHRUP, KING & CO.'S SEED POTATOES

Many Carloads of Potatoes are Handled by us Every Season.

The seed Potatoes we send out are seed Potatoes in every sense that the word Seed should imply. They are not only the best we can supply, but we try to have them the best to be had from any source at any price. To that end they will be hand sorted, selected stock such as anyone will be proud to plant.

## Our Potatoes Are Grown in the Far North.

Our stock is grown largely in the Red River Valley of North Dakota. "Red River" stock always commands a premium over Potatoes produced elsewhere. No seed Potatoes can be compared with those produced in the North, either for vigor and freedom from disease, or for producing and long keeping qualities.

Our seed stock is carefully selected for an oval shape and medium size; tubers somewhat flattened and a trifle tapering, with stem end slightly hollowed. They will all be hand graded and screened before shipping.

Our seed is clean and healthy and in order that the product may be equally scabless, we urge customers to treat the seed they plant with Formaldehyde, as the soil may be infected. For price, see page 104.



Northrup, King & Co.'s Extra Early Ohio Potatoes.

## Culture.

The soil should be well worked and thoroughly drained. Sandy loam with a clay sub-soil is best. Eight to ten tons of manure per acre should be used if the soil is lacking in fertility.

The hill or row system may be used in planting. If in hills, they may be three feet apart each way or thirty inches one way and thirty-six inches the other. The rows are usually three to three and one half feet apart. The distance between the hills in the row varies from 12 to 16 inches apart for early varieties and 17 to 20 inches for late ones, according to the soil.

On light soils early varieties may be planted, three or four inches deep and late varieties four or five inches deep. Early varieties are planted any time after the middle of April, but there is danger of their being caught by frost if planted before May first. Usually it is best to plant the main crop of Potatoes before the middle of May as early planting usually gives better results than late planting in Minnesota.

The cut seed should be as blocky in shape as possible. Long thin pieces are more likely to rot in the ground. A good method is to begin cutting off pieces at the stem end diagonally across the tuber until just enough is left at the seed end to make two pieces, when this part should be cut in two in the middle so that all the eyes on the seed end will not be left on one piece.

When the rows are three feet apart and the space between hills is 15 in., 12 bushels of seed Potatoes are required per acre, if the seed pieces are cut into 1-oz. pieces. This is about the average rate per acre for this region.

**Prices.** Owing to the fluctuating market and the impossibility of accurately estimating future values at the time of going to press, we are listing no prices in this catalogue. Price lists are issued at frequent intervals during the season, and the many dealers who sell our seed potatoes are kept informed as to values.

We believe it would be wise to order early, not only to secure the advantage of the early price, but to avoid also the possibility of varieties becoming sold out later. Such orders can be placed to advantage through your local dealer whom we supply promptly. If your dealer does not handle Northrup, King & Co.'s seed, write directly to us. Those wishing to buy in large quantities should ask for special prices, stating varieties and number of bushels wanted.

**Date of Shipment.** Potatoes will be shipped at any date ordered, but where no special instructions are given to the contrary, we will hold same until in our judgment there will be no danger from freezing.

## Northrup, King & Co.'s Extra Early Ohio Potatoes.

### Our Own Special Stock.

We consider these to be the earliest, purest and altogether the handsomest stock of Early Ohio Potatoes that the season affords.

On these points we challenge comparison with stock from any other source. Many carloads are shipped annually from the Red River Valley to Texas, Illinois, Iowa and other central and Southern states. Experienced growers have learned that it pays well to procure this stock. They are selected with the utmost care and the result is such as to delight everyone who knows and appreciates a good Potato.

The Early Ohio Potato is so well and generally known as to require no extended description. We believe it to be more popular than any other variety, which fact is evidenced by the very large demand we have for it. Our sales on this sort are many cars in excess of the quantity sold of any other one kind. They can be depended upon to give uniformly good yield under almost all conditions and soils and produce a tuber of an ideal size.

Notwithstanding its earliness, this Potato keeps well. Our stock in the Spring is as sound as a dollar.

The basket of Extra Early Ohio Potatoes in the illustration represents the ideal type, smooth, uniform and of fine, typical shape. This Potato is characterized by pink skin, shallow eyes and blunt ends.

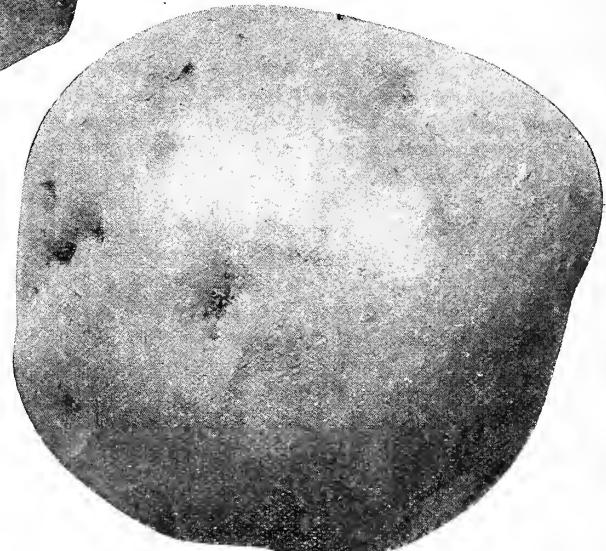
Good Ohio seed stock is scarce and high this season owing to a less than normal crop in the Red River Valley. Our stock does not run quite so even in size as usual because of the unfavorable weather conditions during the growing season. However we believe it is the best seed obtainable and will prove very satisfactory. Ask for prices on N. K. & Co. stock and place your order early.



Rose Potato.

**Early Triumph.** (BLISS.) This variety was introduced many years ago by Mr. B. K. Bliss. The Triumph attained at that time no particular favor, but all of a sudden its virtues became appreciated and the demand for it was so great that it sold readily in carload lots for three times the price of ordinary seed Potatoes. There is good reason why the Triumph should be popular. It is from seven to ten days earlier than the Ohio, and that often means a difference of many dollars in the crop. This variety has long supplied the bulk of new Potatoes for the Spring market throughout most of the United States. Its reddish skin shows bruises but little so it can be shipped before it is fully ripe. The Potato is medium to small, squared at the ends. Skin is red, flesh is very white and firm. It is productive, and for several years to come will probably command a higher price among Potato buyers than any other sort. Crop less than normal this season.

Opening price quoted on page 11.

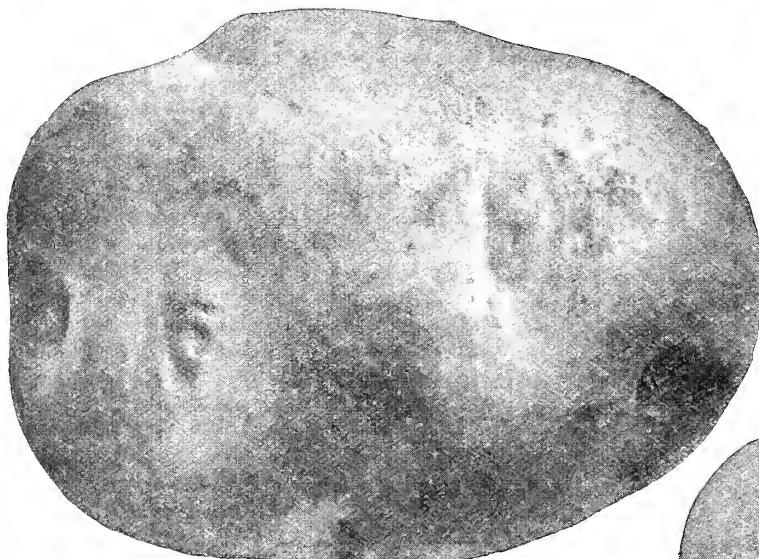


Extra Early Triumph Potato.

#### Carman. The Best Main Crop Potato.

The Carman is already rivaling in popularity the Burbank, and is undoubtedly a much better Potato. Without any exception whatever it is the greatest yielding Potato ever introduced. The tubers are borne very close to the plant, a single turn of the fork turning out every Potato. It is of a large size and of the shapeliest form. Eyes are few and shallow. It is a perfect keeper, and is not surpassed as a table variety. Skin and flesh of extreme whiteness. It rarely has a hollow heart or dark parts. We recommend this Potato to our customers as being undoubtedly the best of all late sorts.

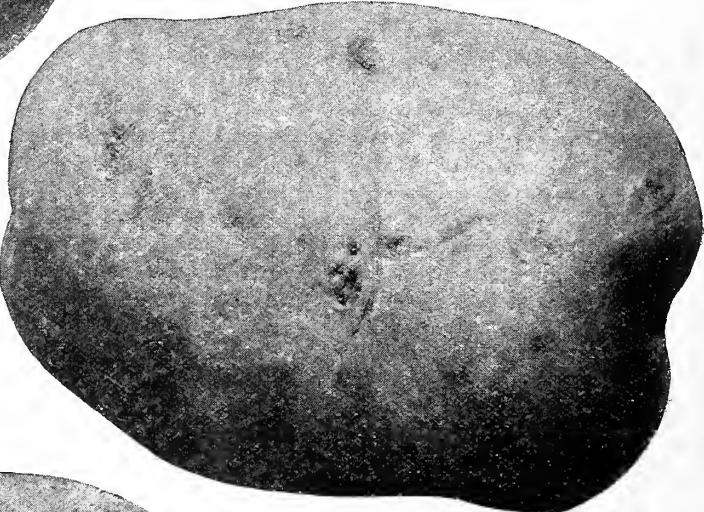
Price shown on page 11, subject to later variation.



Carman Potato.

**Rural New Yorker.** Originated by the late Elbert C. Carman, and a very distinct and valuable main crop sort. The tubers attain a large size and are of round oval shape. The eyes are few, distinct and shallow. It is a very healthy and vigorous variety. See page 11 for January 1st price.

**Pingree.** This is a main crop Potato, named for the late Governor Pingree of Michigan—and pronounced by him the best Potato he had ever eaten. It is productive to an extraordinary degree. The Potato itself is of the size and shape best liked in nearly all markets. In quality no Potato can surpass it; in fact, in this particular we know few sorts that equal it. Its snowy whiteness when cooked, together with its dry and floury nature, make it a favorite. Turn to page 11 for opening price.



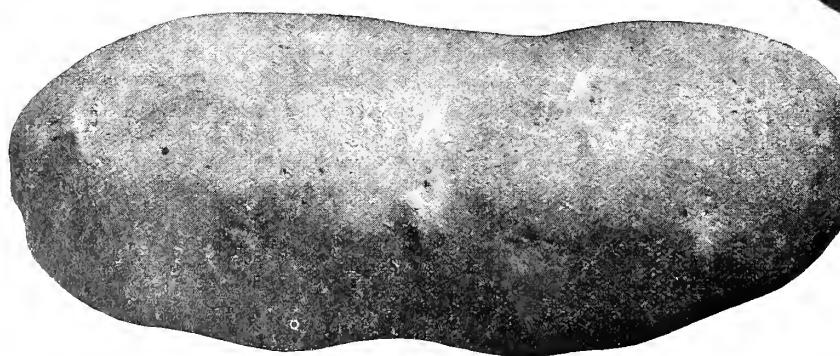
Rural New Yorker Potato.

#### Burbank. A Standard Late Variety.

Continues in good demand and is more largely used than any other. It is of good size, of fine form and an excellent yielder. The flesh is white, very mealy and of fine flavor and quality. A fine Potato for baking. This variety is well adapted to light soils. January 1st price is given on page 11.

#### Potato Booklet.

Our Potato Booklet is now ready. Valuable for every potato grower. It gives complete cultural directions and many valuable hints regarding the crop. A copy will be furnished free with Potato orders upon request, or mailed for 5c in stamps.



Burbank Potato.



Irish Cobbler Potato.

**Irish Cobbler.**

For years this was the leading early variety of Maine, from where it spread south and west. It is a trifle earlier than the Early Ohio but under some conditions will make a heavier crop.

The tubers are round, somewhat flattened with rather deep eyes and are medium to large in size. The skin is smooth, finely netted, and white in color. Flesh white, of fine quality and flavor.

This is a very vigorous grower, far less liable to knot and crack than many varieties and is nearly immune to the internal brown spot that affects some other sorts. It is a splendid shipper. Prices were not known when this page was printed. For the beginning of the season, prices are listed on page 11.



See cover page for explanation of these brands.

This splendid new Potato was only recently introduced in the Northwest but is already earning a reputation for quality and heavy yields that is pushing it rapidly to the front.

The Potatoes are somewhat similar to the Ohios in shape but are larger and do not run quite so even as the type has not had time to become so well fitted. They are oblong to cylindrical, square at the stem end and rounded at the seed end; slightly flattened and thick. The tubers are very solid and extremely heavy for their bulk, weighing up to 2½ lbs. each. In season they are about ten days later than the Early Ohio. The skin is a creamy white and flesh clear white. They are exceptionally mealy and white when baked, with a delicious flavor.

Early White Albinoes are a very fine variety for shipping, and storing for spring use, as their tough skin and firm flesh prevent bruising when handled, and they keep hard and sound until Spring. As the market for old Potatoes is generally very firm just before the new crop is ready it is frequently a good proposition to store Potatoes until then, providing one has good storage facilities and long keeping tubers, like Albinoes.

These Potatoes are exceptionally heavy yielders. In seasons rather unfavorable for Potatoes in the Red River Valley where this stock was grown, the Albinoes, in spite of a late Spring and August frosts yielded splendidly. Our grower there admits he is "in love with them."

The vines are of medium height, stocky and upright in growth, with strong, heavy foliage, indicating the great vigor of the stock. The tubers set close together in the hill so they are easily turned out by hand or digger. Plant them early in good soil and the results at harvest time will delight you.

Prices subject to market changes are given on page 11. Customers are urged to place orders early in order to obtain the pick of our seed crop.



Early White Albino Potato.

**POTATO EYES BY MAIL****The Best Way to Secure Planting Seed.**

We believe that we are the originators of the system of sending Potato eyes by mail. There are many people living in cities or towns who have a small garden and would like to devote a portion of it to Potatoes, but do not feel like paying the freight or express charges on a small quantity of seed. The freight always on a few Potatoes necessary to plant this space would amount to as much as we ask for the eyes delivered at your door.

The importance of securing Northern Grown Potatoes should be taken into careful consideration. Our stocks were all grown for seed purposes largely in the Red River Valley, conceded by every one to be the ideal location for the propagation of this tuber. By careful selection we take the very best Potatoes, from which the eyes are cut. These are prepared in such a way that they will keep in good condition for a considerable length of time.

There are numerous advantages in procuring Potato eyes, which can be briefly summed up.

First—It has been conclusively proved that Potatoes cut to single eyes give results generally satisfactory on good soil.

Second—No freight or express charges to pay, as we pay the postage.

Third—They can be sent without danger of freezing. A customer can secure them in ample time for planting without incurring this risk.

Fourth—By our improved method of preparing the eyes for shipment, they will keep in good condition for a month or more.

Fifth—There are many who would like to try some of our varieties for the first time. By purchasing eyes this can be done at a very slight expense.

Sixth—We guarantee safe arrival, in good condition for growing.

**QUANTITY TO PLANT.**

If planted in hills allow three or four eyes to each; if in rows, far enough apart to permit cultivation, drop eyes about every eight or ten inches. Cultivate the same as ordinary cut tubers. Eyes are packed in neat boxes, properly and plainly labeled (see illustration) each small box containing 25 eyes. We can furnish all of one variety or several varieties, but no less than 25 eyes of any sort will be put up.

**OUR OFFER FOR \$1.25.**

We will send to any address, postpaid, 100 Eyes, (25 each) of the following splendid sorts: Northrup, King & Co.'s Extra Early Ohio, Burbank, Extra Early Triumph, Carman. This is the way to secure your planting stock of new varieties for less than the freight would cost on the whole Potatoes. We pay the postage.

Items listed in this catalogue can be obtained from dealers in practically every section of the Northwest. For your convenience we shall be glad to tell you the names of the nearest merchants who handle Northrup, King & Co.'s seeds and will fill your order. If no N. K. & Co. dealer is near you, shipment will be made to you from our Minneapolis warehouse.



A Box of Potato Eyes. (From a Photograph.)

# RADISH

## The Secret of Growing Good Radishes

The secret of growing good radishes consists chiefly in the observance, on the part of the grower, of three points. First, they should be grown on light quick soil. Second, they should be given plenty of water, and last, but not by any means least, the right kind of seed should be sown. Radishes grow very quickly and if not supplied with sufficient moisture are likely to be pithy.

Sow seed  $\frac{1}{2}$  inch deep in the early Spring in rows 1 foot apart and the more fertile the soil the faster they will grow. For a succession, sow every 10 days throughout the season and stir the soil sufficiently to keep out weeds.

One oz. of seed required for 100 ft. of row; 8 to 10 lbs. of seed will plant one acre.

## EARLY ROUND RADISHES.

### 1405. Sterling White Tip Radish.

Sold only in Sealed Packages.

After several years' experience in growing many strains of White Tip Radish we gave this particular sort the name "Sterling," because of its fine shape, its uniformity, its handsome appearance, its solidity, its superiority in every respect to all other strains of this type of Radish. It is very early and equally desirable for outdoor culture and forcing under glass. When placed on the table it is of particularly fine appearance. In flavor, no other Radish excels it, being crisp, sweet, mild and delicate, all that may be desired in a radish. Prices of radish seed are shown on page 11.

### 1410. Early Deep Scarlet or Non Plus Ultra, Forcing.

This variety has as small a top and is as early as any in cultivation, making it one of the best for forcing under glass. Roots ready to pull may be had in three weeks and they remain fit for use longer than any other early variety. They are small, globular, smooth, very deep red in color; flesh is white, crisp, tender and mild in flavor. May be planted very closely owing to their small tops. See page 11 for prices.

### 1418. Early Scarlet Globe.

A selected forcing strain especially adapted for greenhouse and hot bed culture, but may be grown outdoors also with the best results. The shape is a little longer than round and the color, which it holds long after pulling, is very brilliant and attractive. Has a small top and is very early, being fit to pull as soon as Non Plus Ultra, but is much larger when matured. The flesh is white and tender making it desirable for gardeners whose markets demand a large first early radish. This variety priced on page 11.

### 1420. Early Scarlet Turnip, White Tipped.

Practically the same as the Rosy Gem, except that it is not quite so early but is used mostly for outdoor culture. Turn to page 11 for cost of seed.

### 1425. Early White Box.

Similar to the White Turnip, but attains larger size. Prices for all quantities are given on page 11.

### 1430. Early White Turnip.

A medium sized round variety, grown very largely for summer use. Has a small top and pure white skin. The flesh is waxy, mild and crisp. While generally used for outdoor culture, this makes a good variety for forcing. It takes about 30 days to mature and remains fit for use a long time. Values are listed on page 11.

### 1435. Rosy Gem.

We have a very clean and beautiful strain of this popular sort. It is extremely early, maturing in 25 days, and is largely used for growing both under glass and outdoors. It is round, bright scarlet and has a handsome white tip. Seed prices shown on page 11.

### 1440. Ruby Pearl.

A small turnip-shaped, bright red Radish with a pure white tip which includes the tap-root. This variety is more brightly colored than the Scarlet Turnip, White Tipped and will soon rival it in popularity. See page 11 for prices.

### 1445. Sparkler.

White tipped Radishes are justly popular by reason of their attractive appearance, but the varieties already in existence are either too dull in the ground color or lack a clearly defined white tip.

This quite distinct variety fulfills every requirement in each respect, the color being a rich carmine scarlet with a very pronounced tip of the purest white. The roots even when fully developed are solid, crisp and sweet, and remain fit for use as long as the coarser kinds. It is equally well adapted for forcing in frames or growing in the open ground, for while the leaves are small, they are sufficiently large for bunching. Priced on page 11.

### 1450. Triumph Radish.

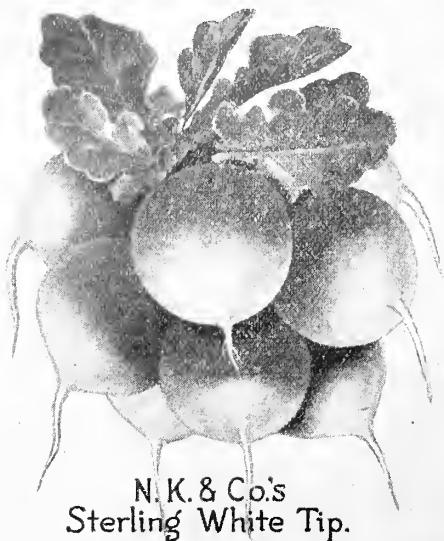
This is a decidedly unique novelty in Radishes. It is very early, maturing about twenty days from the time of sowing. It is globe-shaped; the tops are short, which makes it valuable for growing under glass. The flesh is very crisp, solid and of mild flavor. The ground color is pure white, striped horizontally with bright scarlet. Packet, ounce, and pound prices are quoted on page 11.

### 1455. Yellow Ball.

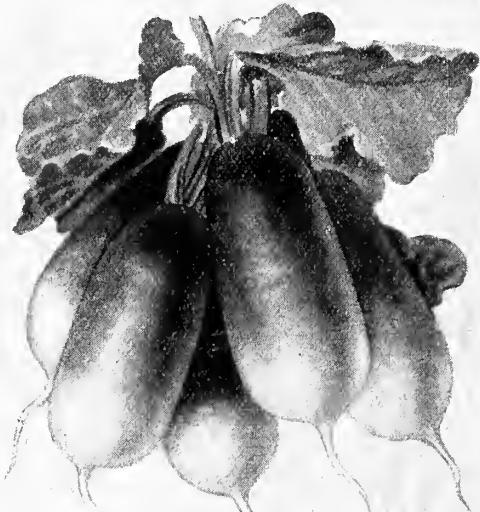
or Summer. A fine summer variety, of quick growth, producing crisp, tender Radishes even in the hottest weather and for that reason is grown extensively in the South. Roots are uniformly globe-shaped; skin is golden yellow in color and flesh is mild in flavor. For cost of seed, refer to page 11.

The unusual demand for seeds this year suggests the wisdom of ordering early. If you live in the great Northwest you will find a dealer nearby who is selling this reliable Northrup, King & Co. seed from the seed case shown on page 3, or will fill your order for larger quantities than packets. If you have any difficulty in obtaining your supply, write to us and we will give you all possible assistance in filling your order.

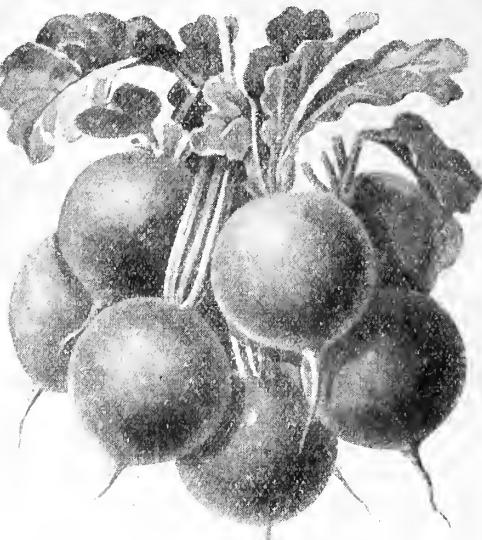
We suggest that you see the Northrup, King & Co. dealer well in advance of planting time.



N.K. & Co.'s  
Sterling White Tip.



N.K. & Co.'s  
Special French Breakfast



Early Deep Scarlet Turnip.

# RADISH

## EARLY OLIVE SHAPED RADISHES.

### 1460. Early Scarlet Olive.

A very useful variety. Matures in 25 days; color, bright scarlet; flesh, crisp and tender. Best adapted for main crop. Consult page 11 for prices on all quantities of seed.

### 1462. Northrup, King & Co.'s Special French Breakfast.

(Sold only in sealed packages.) Of all the large number of different strains of Radishes grown in this locality this past season, none surpassed in fine quality or appearance, this new variety. It is oblong in shape, has a bright scarlet top and pure white tip. It matures quickly and is sweet, crisp, solid and tender. When offered for sale it quickly attracts the buyer's attention. Prices are given on page 11.

### 1465. French Breakfast. Regular Strain.

A great favorite. Beautiful, bright scarlet, with pure white tip. Oblong in shape, medium size, makes rapid growth. It is a fine table variety on account of its excellent quality and attractive appearance. Fine for open ground or forcing. Refer to prices on page 11.

### 1470. White Olive Shaped.

Flesh mild and firm. Of very fine quality. Packet, ounce, and pound prices are listed on page 11.

## LONG RADISHES.

### 1475. Chartier or Shepherd.

The largest and handsomest summer sort. This variety is ready for the table very early and remains hard and crisp until it reaches a diameter of about an inch and a quarter, thus furnishing good roots for a long time. The color at the top is of a vivid crimson, fading gradually to pure white at the tip. Is delicious in flavor, resists drought effectually. See values given on page 11.

### 1480. Glass or Cincinnati Market.

In appearance this Radish is entirely unique. It is very early, splendid for forcing or open ground. The tops are very small and they may stand close in the row. They grow straight and smooth, from six to seven inches long. The flesh is very tender, crisp and delicious. This is a handsome variety, bright red in color, and remains in good condition for several days. Priced on page 11, all quantities.

### 1482. Long Cardinal.

A very early variety, fit for use in about 25 days from sowing. It is of a bright red color with white tip. It is especially valuable because of its crisp, tender flesh and fine appearance. It is smooth and uniform and highly colored; the contrast of brightest cardinal with the white tip is both inviting and appetizing. Being early it is very profitable for marketing. Turn to page 11 for prices of seed.

### 1490. Long White Vienna or Lady Finger.

Pure white in color, of long tapering shape, very attractive in appearance, sweet, mild and delicious. Matures in 25 days. Complete price list of radish seed, including all varieties, will be found on page 11.

### 1495. White Icicle.

The finest of the early, pure white varieties. Planted in the spring the radishes are ready for pulling in about three weeks from sowing the seed. They are long and slender and clear, pure white, making them very attractive when on sale and on the table. It is crisp and tender both when young and until it attains larger size, thus remaining in condition for use for considerable time. Prices on page 11.

### 1485. Long Scarlet Short Top.

A standard popular sort. Grows to six inches in length, matures in 25 days and can be used before it is fully grown. The roots grow half out of the ground, are very uniform in shape, smooth and very bright red in color. It remains crisp and tender until fully grown. Excellent either for the market or private garden. For cost of seed see page 11.

### 1500. White Strasburg.

A large, medium long sort, with heavy shoulders tapering gradually to base. Flesh and skin pure white. Solid, fine quality. Resists drought. This seed is sold at prices shown on page 11.

### 1505. Wood's Early Frame.

An improvement on Long Scarlet. Largely used for forcing and a very popular variety with those who know it. Our stock is fine. See page 11 for price.

## WINTER RADISHES.

The merits of Winter Radishes are little appreciated, probably because they are seldom grown and few people have knowledge of their worth. These grow to large size and keep well for winter and spring use. Sow seed in the middle of June. Include some of these in your order.

### 1510. California Mammoth White.

Pure white, about one foot long and two or three inches through, tapering regularly to tip. The flesh is tender and crisp, keeping well through the winter. Sold at prices shown on page 11.

### 1515. China Rose.

Bright rose color, flesh firm and piquant, cylindrical, or largest at the bottom, tapering abruptly to small top. One of the best for winter use. Prices listed on page 11.

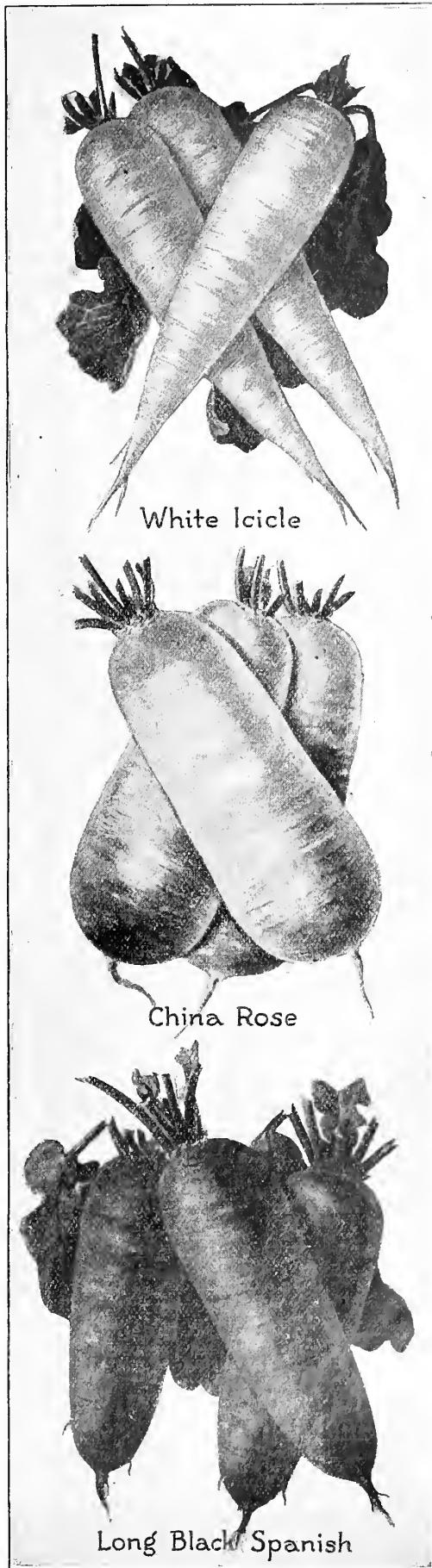
### 1520. Long Black Spanish.

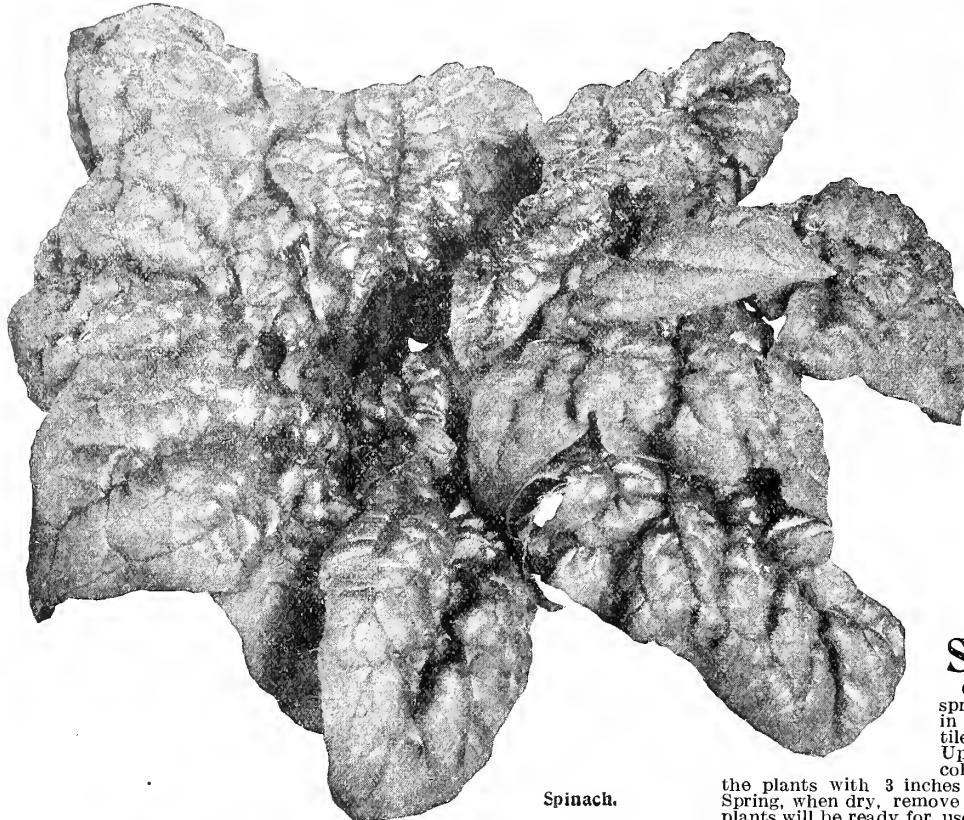
One of the largest, latest as well as the hardest of Radishes. Roots of medium size, oblong, black, and flesh is of firm texture. For prices consult page 11.

### 1525. Round Black Spanish.

Roots round, sometimes top-shaped, three or four inches in diameter; skin black; flesh white. Fine for winter use as the roots keep a long time. All Radish seed priced on page 11.

**Notice. All vegetable and flower seeds sent prepaid, except where noted.**





Spinach.

## RHUBARB SEED

**Culture.** Sow the seed in cold frame in the Spring and as soon as the plants are large enough transplant into rows 1 foot apart each way and cultivate. The following Spring, plant out in rows 5 feet apart each way and each Spring work into the soil a liberal supply of decomposed stable manure. Rhubarb roots are set out and cultivated as the above and this method gives edible Rhubarb in a very short time.

One oz. of seed will sow 75 ft. of row.

**1538. Rhubarb Seed.** Vigorous and productive. The leaf stalks are very numerous, the longer ones being from 15 to 20 inches in length, and fully 1½ inches wide. Prices are given on page 11.

**1540. Strawberry Rhubarb.** A delicious variety, yielding heavy crops of light crimson stems which are a beautiful strawberry color when cooked. See page 11 for prices.

## Rhubarb Roots

The planting of Rhubarb Roots is usually more satisfactory than to attempt to start from seed. Both time and labor are saved where the former method is followed. Roots such as we furnish should be set into well enriched soil at least five feet apart each way. The stalks should not be pulled the first season. The blossom stalks, however, should always be cut back so as not to exhaust the plant by going to seed.

Mailing Size. Each, 20c; doz., \$2.00, postpaid. Extra Large. Each, 20c; doz., \$2.00; by express only.

## SALSIFY or Vegetable Oyster

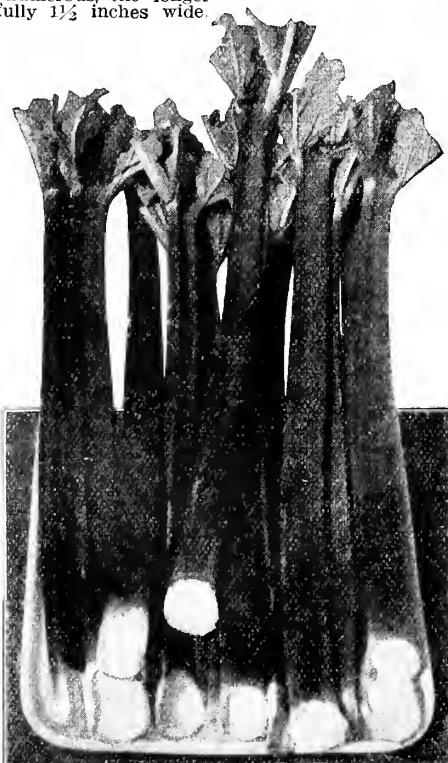
**Culture.** Soil, seeding, culture and storing same as for parsnip. One oz. of seed will sow 60 ft. of row; 10 lbs. of seed required for an acre.

**1550. Long White French.** The variety most commonly cultivated and considered the best in flavor. The roots are long, white, smooth and when properly cooked form a good substitute for oysters, which they resemble very much in taste. Refer to prices listed on page 11.

**1555. Sandwich Island.** Grows uniformly extra large, averaging fully double the size and weight of the roots of the old variety. Of very superior quality and delicate flavor. Price for this variety shown on page 11.

## Handbook for Garden.

A new and revised edition of this valuable booklet has been published. It is free with seed orders or will be sent postpaid for 5c.



Rhubarb.



Salsify.

## SPINACH

**Culture.** For early spring use, sow seed in August in very fertile soil rich in humus. Upon approach of cold weather, cover

the plants with 3 inches of straw. In the Spring, when dry, remove the litter and the plants will be ready for use in a short time. Sow the seed 1 inch deep in rows a foot apart. For a succession, sow again early in the Spring, and every two weeks thereafter. Keep surface soil cultivated lightly.

One oz. will sow 100 ft. of row; 10 to 12 lbs. seed required for an acre.

**1565. Bloomsdale or Savoy Leaved.** This is the earliest variety. Plant is of upright growth, with narrow, pointed, crinkled leaves. Is very hardy. All quantities priced on page 11.

**1595. Round Thick Leaved.** A rapid growing variety forming clusters of large, very thick, slightly wrinkled leaves. A favorite with market gardeners. Packet, ounce, and pound prices on page 11.

**1572. Long Season.** An excellent sort, having very dark green, tender, crumpled leaves. It will stand an exceptionally long time without running to seed, and remain in good condition. One of the very best varieties for early spring and successional summer planting. Sold at prices listed on page 11.

**1575. Long Standing.** This excellent variety comes quickly to maturity and remains in condition for use much longer than other sorts. The leaves are smooth and very dark, rich green. In our estimation the best for the private garden, as it is one of the most popular and profitable with market gardeners. This seed is priced on page 11.

**1580. Long Standing Prickly.** A little later than the leafy sorts, but yields a large quantity of thick and finely colored leaves. It remains in condition fit for use for a long time. Seed is prickly. Consult prices shown on page 11.

**1570. Munsterland Frost Resisting.** A hardy winter Spinach, standing considerable frost. The hardiest of all varieties. Especially adapted for planting in August and very early September. Priced on page 11.

**1590. Prickly Winter.** A very hardy variety and will withstand severe weather especially well. It is a sort used largely for fall sowing. Note the prices, page 11.

**1585. New Zealand.** The stems and leaves are soft, thick, fleshy and crystalline in appearance. When started early in the Spring, the plants will resist heat and make strong growth during the Summer. See page 11 for prices.

## Garden Cultivators.

A hand cultivator is a great labor saver for the small garden and a horse cultivator is necessary for a large one. See page 107.

## SQUASH

### WINTER VARIETIES.

**Culture.** Plant seed in extra fertile soil in the Spring as soon as danger of frost is past. The vining varieties should be planted in hills 8 or 10 feet apart each way, and the bush varieties from 4 to 5 feet. Place 10 seeds in a hill and cover with an inch of soil.

When the plants are well started thin out and cultivate.

One oz. of seed required for 25 hills.

For running varieties, 3½ to 4 lbs. seed required per acre.

Bush varieties require 6 lbs. of seed per acre.

#### 1605. Northrup, King & Co.'s Improved Hubbard.

(Sold only in sealed packages.)

Our own strain of Hubbard Squash is the finest grown.

The soil and climatic con-

ditions of Minnesota are bet-

ter adapted to the proper maturing of

Squash seed than any other section, and

as we have taken special care in selecting and im-

proving our strain, the result is the very highest

type known. It matures earlier, keeps better and

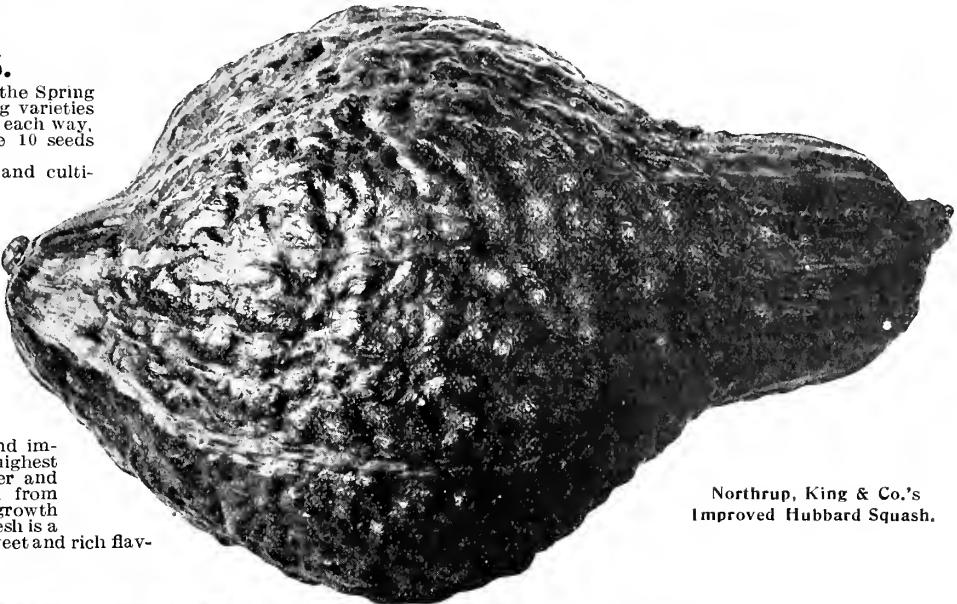
commands a higher price than that grown from

other seed. The vines are of strong, running growth

and bear many large, pear-shaped fruit. Flesh is a

bright orange-yellow, fine-grained, very dry, sweet and rich flav-

ored. Price of seed shown on page 11.



Northrup, King & Co.'s Improved Hubbard Squash.



Mammoth Chili Squash. As they come from the field.

## SUMMER VARIETIES.

**1630. Delicata.** May be used either as a summer or winter variety. Matures about the same time as the summer varieties, and is of very fine flavor. Orange-yellow, splashed and striped with very dark green. The quality is rich and dry, wonderfully solid and heavy. See page 11 for prices.

**1635. Golden Summer Crook Neck.** Early and prolific. The fruits are of the true crook-neck type, heavily warted, and of light golden color; about one foot long. List of prices on page 11.



Yellow Bush Scallop Squash.

White Bush Scallop Squash.

Golden Summer Crook Neck Squash.

#### 1600. Mammoth Chili.

**Weigh up to 100 lbs.** **Immensely Profitable. Very Productive.** Attains an enormous size, often reaching a weight of 75 pounds, and not infrequently weighs 100 pounds. Despite its size, its flesh is rich and fine flavored. It is especially desirable for stock feeding and exhibition purposes. From the illustration you will note its uniformly large size. For feeding cows it is best to cut them up, mixing with ground feed. As the yield an acre will run from 8 to 15 tons, it will thus produce a very cheap and nutritious feed. In feeding to swine, all that is necessary is to break the Squashes open and the swine will help themselves.

Mammoth Chili Squashes carry off the prize at nearly every show where they are exhibited. See page 11 for prices.

**1610. Boston Marrow.** A large fruited, hard shelled, winter sort, with bright orange skin and deep orange flesh. Vine of strong, running growth and very productive; fruits oval. Values quoted on page 11.

**1615. Chicago Warted Hubbard.** Is similar in size and quality to the Hubbard. The vines are vigorous and productive, while the large, dark olive-green fruits are rather more heavily warted. An excellent keeper and of splendid quality. Turn to page 11 for prices.

**1620. Gregory's Delicious.** In dryness, sweetness and richness of flavor, surpasses all other Squashes. The shell is green in color, the flesh a rich orange. An excellent winter keeper. Consult page 11 for cost of seed.

**1625. Red or "Golden" Hubbard.** This is identical in size, form and fruitfulness with the Chicago Warted Hubbard; the chief distinction being that the heavily warted skin is of a rich orange-yellow turning to a deep salmon-red when ripened. It is of fine quality. Prices are given on page 11.

**1640. White Bush Scallop.** (Patty Pan.) Matures early and will bear throughout the season if fruits are kept gathered. Squashes are clear white and of large size. Flesh is thick and of very fine quality. All quantities priced on page 11.

**1645. Yellow Bush Scallop.** A very early, large flat variety; fine flavor; very small seed cavity. See prices given on page 11.

**1647. Vegetable Marrow.** Long White Bush. A very popular sort abroad and can be raised equally well here. Is long and slim, color white, with delicious white flesh. Note the prices listed on page 11.

## TOMATO

1/4 lb. seed produces plants for 1 acre, 1 oz. makes 1500 plants.

### 1650. Northrup, King & Co.'s Sterling.

(Sold only in sealed packages.) This is an early, large and perfectly smooth Tomato of perfect flavor, very solid, and strikingly attractive in general appearance. In color it is a glossy crimson, tinged with pinkish purple. It is enormously productive, one plant alone having been known to produce nearly a bushel of ripe fruit. In addition to its earliness it continues to produce ripe fruit until frost. It is, we think, the best of all Tomatoes for family use and is unsurpassed as a money maker for the market gardener. Prices for all varieties of Tomato seed are listed on page 11.

**1660. Acme.** Early and bears fruit until cut off by frost. Fruit is purplish, always round, smooth and of good size, and is borne in clusters of four or five; free from cracks and stands shipment well. Flesh is solid and of excellent flavor. Does well both outdoors and under glass. This is a good canning variety. See page 11 for prices.

**1665. Beauty.** (Livingston's.) One of the smoothest skinned and best of the large sorts. The vines are large, vigorous and very productive. The fruit is large, uniform in size and very smooth. Skin purplish pink, flesh light pink and of excellent flavor. For prices see page 11.

**1725. Chalk's Early Jewel.** The largest, smoothest and finest flavored, extra early bright red Tomato. About ten days later than Spark's Earliana. It is a heavier cropper, with Tomatoes of larger size and sweeter flavor, produced throughout the season. The Tomatoes are of good size, just right for market; very solid and deep through, almost round; color bright scarlet, ripening to the stem without cracks or green core. Flesh is thick, solid of fine flavor, with few seeds; the skin is strong enough to make it a good shipping variety. Prices are given on page 11.

**1675. Dwarf Champion.** Dwarf and compact in habit; sold by some seedsmen as the Tree Tomato. Stands up well even when loaded with fruit, having a stiff, bushy stem; can be planted close together; very desirable in small gardens; early. It is always smooth and attractive; the skin is tough and flesh solid, but has no hard core and is of good flavor. All quantities priced on page 11.

Northrup, King & Co.'s

### 1720. Early Minnesota Tomato. The Earliest Good Tomato.

Sold only in Sealed Packages.

Our stock of this splendid Tomato has come in competition in the race for earliness with numerous other varieties sent out under strong claims, and has beaten them all, and remains today, as it was when we first offered it several years ago, the earliest of all the good varieties, very hardy and succeeding everywhere. The Imperial, Early Ruby and Earliana are excellent sorts but the Early Minnesota is superior to these in shapeliness, color, size, smoothness, solidity and flavor, as well as being earlier. When we say the earliest Tomato, we of course mean the earliest good Tomato. There are several sorts a very little earlier, but they are gnarled, ridged, small, tasteless and unworthy the name of Tomato, and unfit for use. Those wishing the earliest good Tomato must have our Early Minnesota. See page 11 for prices.

**1685. Favorite.** (Livingston's.) Large, smooth, blood-red sort; early; ripens all over and through at once. Will bear shipping long distances. Very few seeds and has no hard, green core. Note the prices on page 11.

**1728. June Pink.** One of the earliest varieties of Tomatoes and a special favorite with those who like the pink color. The fruit is borne in clusters and begins to ripen very early. The Tomatoes average three inches in diameter and are of excellent quality. The yield is heavy and continuous until the vines are cut down by frost. Turn to page 11 for prices.

**1733. John Baer Tomato.** Originator's Stock. This variety is the result of fifteen generations of breeding; it produces perfect, solid, high crown, brilliant red Tomatoes; splendid for shipping. They ripen ten days before Earliana, bearing 50 to 100 fruits per plant. The flavor is deliciously sweet. The plant will stand plenty of fertilizer without going to vine. This variety is priced on page 11.



Northrup, King & Co.'s Sterling Tomato.

**1692. Golden Queen.** A very handsome yellow Tomato of large size, solid and smooth; very productive. On page 11 are listed prices for all quantities.

**1700. Livingston's Globe.** Perfectly globe-shaped, very early, large, smooth, has few seeds, firm fleshed, ripens evenly; rose-colored tinged with purple, very productive; an excellent keeper, flavor superb. A fine variety for greenhouse or for early outdoor growing. Refer to page 11 for prices.

**1705. Perfection.** (Livingston's.) One of the handsomest varieties and those who have grown the large, round, smooth, beautiful, red fruit claim it is of superior quality. See page 11 for prices.

**1715. Ponderosa.** This is the largest fruited Tomato and is of a a fine quality for slicing. The vines are of strong growth; fruits oblong in form, deep through, and generally ridged or ribbed; deep purple in color. They are solidly fleshy with small seed cells; of fine flavor. Planted in good soil, fruits frequently attain a weight of one pound or more. Prices on page 11.

**1730. Spark's Earliana.** A perfect early Tomato, large in size and beautiful in color, nearly seedless and very solid, a vigorous grower and prodigious bearer, yielding its splendid fruit until frost. All prices shown on page 11.

**1732. Earliana Select.** Seed saved from crown and select fruit. Prices given on page 11.

**1734. Earliana Private Stock.** A superior stock saved from fine breeding plots, the result of 8 years' selection. Values listed on page 11.

**1710. Stone.** This variety is very large and of a bright scarlet color; very smooth, ripening evenly to the stem without a crack, exceedingly solid; is an excellent shipper; quality the very best; fine for canning; a good keeper; without hard core; not subject to rot; its vines and foliage rank and robust. Consult page 11 for prices.

**1712. Trucker's Favorite.** A purple variety of unusual merit. Its fine, smooth, uniformly shaped fruits command the highest market price. The fruits are thick meated and very solid; the meat is of the finest flavor, making them equally desirable for slicing, canning and cooking purposes. A basket of these Tomatoes is a most attractive sight and those offering them for sale will find the demand larger than the supply. Cost of seed is given on page 11.

## SMALL FRUITED TOMATOES

**1735. Husk Tomato.** Makes fine Preserves. Also called Strawberry and Ground Cherry, is greatly valued for use as a preserve, it also makes delicious pies either when ripe or dried with sugar. The fruits are half an inch in diameter and of very sweet and agreeable flavor. They are closed in a husk or calyx. We consider the Golden Husk better than the Purple Husk variety and unless otherwise directed will always send Golden Husk on orders received for Strawberry, Ground Cherry or Husk Tomato. All quantities of seed are priced on page 11.

**1740. Peach.** These are excellent for eating raw. The fruits resemble a peach, even to the skin, which is covered with a slight bloom as in a peach or nectarine. Note prices given on page 11.

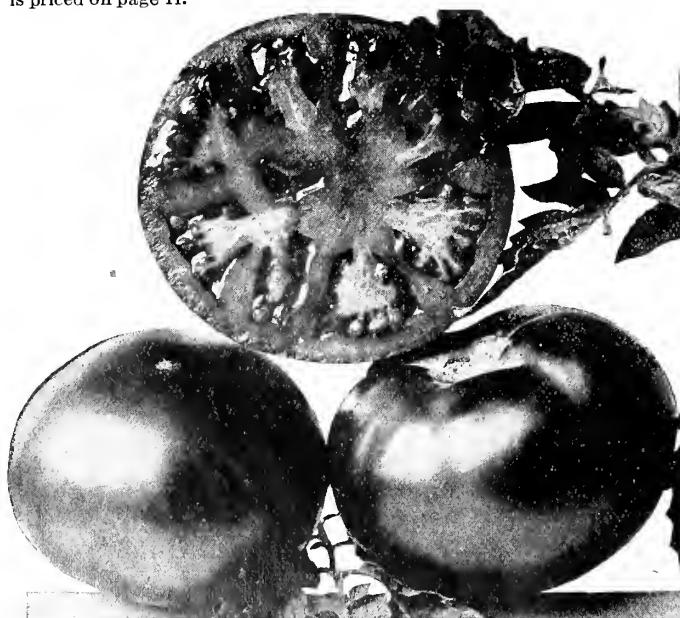
**1745. Red Cherry.** Identical with the Yellow Cherry except in color of fruit, which is of a light scarlet. Priced on page 11.

**1750. Red Pear.** Fruit pear-shaped, of bright scarlet color, rich flavor. See page 11 for prices.

**1755. Yellow Cherry.** Fruits are of a light lemon-yellow, about half an inch in diameter, bears early and freely until frost. For cost of seed, turn to page 11.

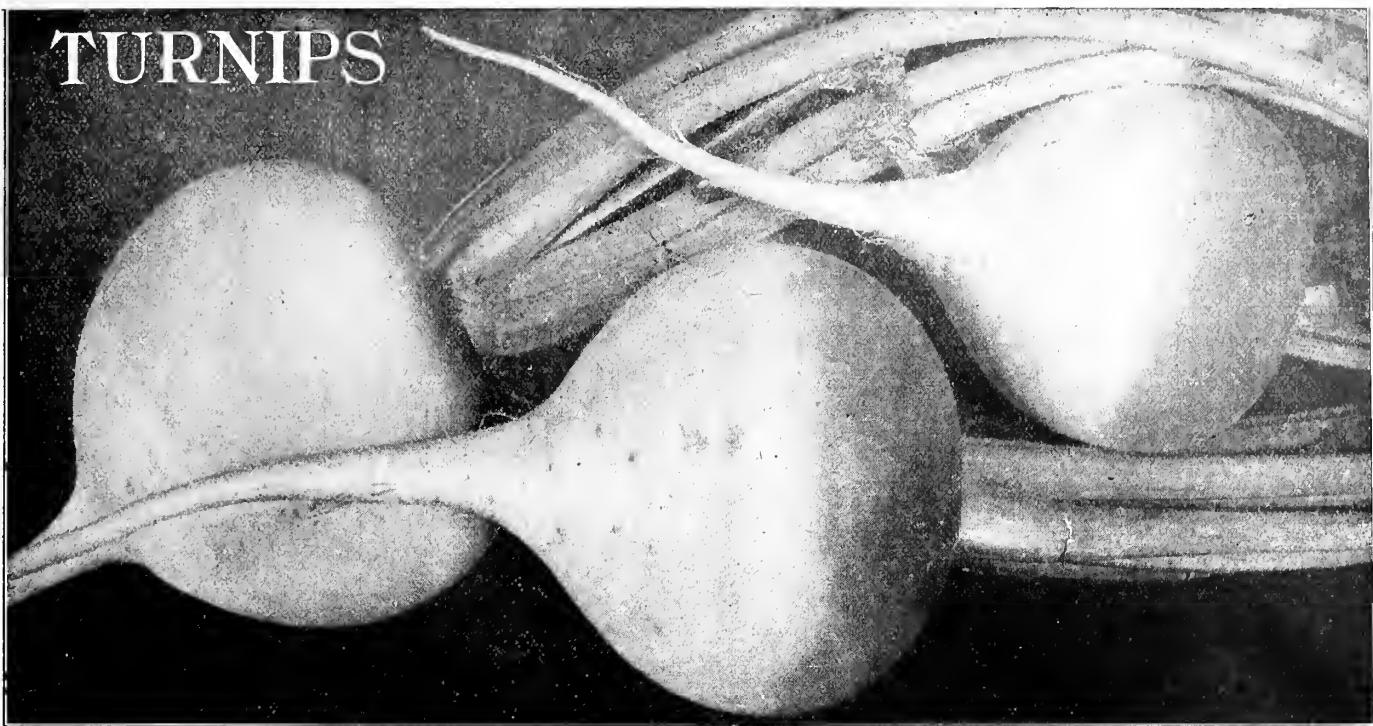
**1760. Yellow Pear.** Similar to the Red Pear, but a handsome yellow. Priced on page 11.

**1765. Yellow Plum.** Fruits are yellow, plum-shaped, in clusters. Excellent. Seed prices shown on page 11.



Dwarf Champion Tomato.

# TURNIPS



White Globe Turnip.

**Culture.** Sow seed early in Spring for summer crop and early in August for late crop; 1 oz. of seed will sow 150 ft. of row; 1 to 2 lbs. per acre.

**1770. Northrup, King & Co.'s Early White Model.** (Sold only in sealed packages.) Best for private gardens and home use. Very early and the most perfectly formed, round, white Turnip. It has a short top and single tap root. Flesh, snowy white, solid and sweet. Turnip seed prices are given on page 11.

**1775. Cow Horn.** Pure white, except a little shade of green at the top. Carrot shaped, grows nearly half out of the ground and slightly crooked. Delicate and well flavored; a rapid grower and good for market use. Prices shown on page 11.

**1780. Early White Flat Dutch.** A very popular sort for table or market; grows quickly, comes early; clear white skin, flesh juicy, mild flavor and excellent quality; bulbs free from small roots. See page 11 for prices.

**1785. Extra Early Purple Top Milan.** Similar to the White Milan, except that the roots are a little more flat, and the upper portion is a beautiful purple-red. Values given on page 11.

**1790. Extra Early White Milan.** The earliest Turnip. Tops very small, distinctly strap-leaved and growing very erect and compact. Bulbs form earliest of any sort. The clean white roots are smooth, flat, symmetrical and handsome in appearance. The flesh is white, tender and sweet. Refer to page 11 for prices of seed.

**1795. Golden Ball or Orange Jelly.** One of the most delicious and sweetest yellow-fleshed Turnips. Not of large size, but firm, hard and excellent flavor. Keeps well and is superior as a table variety. Seed in all quantities, priced on page 11.

**1800. Purple Top, Strap-Leaved.** The most popular sort. A general favorite with all, and more largely grown than any other Turnip; will do well to sow either broadcast or in drills, and will form good sized bulbs in seven or eight weeks. Rather flat and of medium size. Color, purple above ground, white below; flesh, white, fine grained and tender. This variety priced on page 11.

**1805. Purple Top White Globe.** Of a perfect globe shape, about six inches in diameter, with smooth, white skin; flesh pure white, firm and crisp, and of quick growth. A good keeper and is fine for market. Turn to page 11 for price of seed.

**1810. White Egg.** A quick grower; a grand good keeper; excellent either as an early or late variety. The flesh is very sweet, firm and mild, never having the rank, strong taste of some varieties. See page 11 for prices.

**1815. White Globe.** Perfectly globe-shaped; skin white and smooth; leaves, large and dark green. Flesh is white and of good quality. On page 11 all prices are shown.

**1816. Amber Globe Green Top.** A large, round variety with solid yellow flesh. Fine for stock feeding and a good keeper. Excellent for table use, being very sweet. All quantities of seed priced on page 11.

**1817. Purple Top Yellow Aberdeen.** Of medium size, globe-shaped with yellow flesh of fine quality; matures late so should be sown early; keeps well and is a good variety for stock. For prices of seed in all quantities see page 11.

Purple Top White Globe Turnips.

## RUTA BAGA

Swedish Turnip.

**1900. Northrup, King & Co.'s Prize Winner.**

Sold only in Sealed Packages.

Northrup, King & Co.'s Prize Winner Ruta Baga is a purple top, yellow fleshed variety. The roots reach a good size and are exceedingly uniform in appearance. The Prize Winner is an all around Ruta Baga, suited to every purpose and every soil. We do not hesitate to say that in the Prize Winner we possess the handsomest and most productive stock of purple top Ruta Baga known. Valuable not only for stock feeding but for table use as well. Packet, ounce, and pound prices are given on page 11.

**1905. American Purple Top.** This strain is of American origin and is a purple top, yellow variety. It has been selected to produce a smaller top and a shorter neck than is usually found; the roots grow to a large size and are of the finest quality and excellent both for the table and for stock feeding. See page 11 for prices.

**1910. Carter's Hardy Swede.** An excellent sort either for table use or stock feeding. Flesh, yellow, solid, firm, sweet and rich. It is a hardy variety and yields heavily. All quantities priced on page 11.

**1915. Hurst's Monarch.** Distinct in type, being of tankard shape. On account of the size it attains, it will yield from two to seven tons more to the acre than any other variety. Cost of seed shown on page 11.

**1923. Sweet Russian.** Excellent keeper. Desirable for table and stock. Roots, large, globe-shaped, small neck, color white. Flesh, white, firm and sweet. All varieties Ruta Baga priced on page 11.

## HERBS

Utilize the corners for a few Pot and Sweet Herbs (for flavoring meats, soups, etc.) indispensable to every garden, while Medicinal Herbs will be found useful. Thrive nicely along sunny side of fence in a deep, rich soil.

**Culture.** These thrive best in a rich, mellow soil. Sow the seed early in Spring in shallow drills, one ft. apart; when up two or three inches thin out or transplant. Cut on a dry day before coming into full blossom, tie in bunches and hang up where they can dry quickly.

**1818. Anise.** Used for cordials, garnishing and flavoring. Pkt., 5c; oz., 20c.

**1820. Balm.** Leaves used for making pleasant beverages. Pkt., 5c; oz., 25c.

**1825. Basil, Sweet.** Leaves are used in soups, etc. Pkt., 5c; oz., 20c.

**1830. Borage.** Leaves used for flavoring, and flowers furnish bee pasture.

Most easily grown in any waste place. Pkt., 5c; oz., 15c.

**1835. Caraway.** Grown for seeds; used for flavoring. Pkt., 5c; oz., 10c.

**1840. Catnip or Catmint.** Leaves and young shoots used for seasoning. Pkt., 10c; oz., 40c.

**1845. Coriander.** Seeds used in the manufacture of beverages, in confectionery and culinary preparations. Pkt., 5c; oz., 15c.

**1850. Dill.** Seeds have an aromatic odor and pungent taste. Pkt., 5c; oz., 15c; 1/4 lb., 50c; lb., \$1.50.

**1855. Fennel, Sweet.** Ornamental; also, used in sauce. Pkt., 5c; oz., 15c.

**1860. Horehound.** Used for seasoning and cough remedy. Pkt., 5c; oz., 30c.

**1865. Lavender.** An aromatic and useful medical herb. Pkt., 10c; oz., 50c.

**1870. Marjoram, Sweet.** Leaves used for seasoning. Pkt., 5c; oz., 25c.

**1875. Pennyroyal.** Agreeable odor and flavor. Pkt., 10c; oz., 75c.

**1880. Rosemary.** The leaves of this plant are aromatic. Pkt., 5c; oz., 30c.

**1885. Sage.** An indispensable herb for seasoning. Pkt., 5c; oz., 20c.

**1890. Summer Savory.** Used for flavoring soups. Pkt., 5c; oz., 25c.

**1895. Thyme.** Leaves and young shoots used for seasoning; a tea is made of the leaves; a remedy for headache. Pkt., 10c; oz., 35c.

## Beautiful American Asters

### Cultural Note on Asters.

The cultivation of the Aster is simple. Do not sow the seed too early; the middle of March indoors is considered a very good time. Successive sowings should be made, if a constant supply of flowers is desired from July until frost. For early use sow the seed in shallow boxes, covering with one-fourth inch of soil. Later sowings may be made in hotbeds or cold frames; or in the open ground, broadcast or in drills, when all danger of frost is past. Never use the same ground or location twice in succession. The soil should be rich and moist. We recommend pulverized sheep manure, wood ashes and phosphates as fertilizers. If barnyard manure is used it should be thoroughly decomposed. Allow plants plenty of room; rows should be 3 feet apart and 15 inches between the plants in the row, but the distance may be less according to the habit or growth of the variety.

The aster beetle or fly is one of the worst pests but there seems to be only one crop of them, and these if caught and killed are not usually followed by others. Dusting the plants with air slacked lime or dry ashes will be found beneficial. Root lice and cut worms are also troublesome. Applications of kerosene emulsion or tobacco water around the roots are effective. Aster blight or "yellows" can usually be traced to the work of the above pests.

The plants should be pulled and burned if they should become badly diseased. Growers should remember that prevention is better than cure. Good cultivation and the timely use of the remedies suggested should produce healthy, vigorous plants.

### 2031. Lavender Gem Aster.

One of the most beautiful Asters; color a charming shade of lavender, deepening with age. The flowers are always full double, borne in profusion on long, slender, wiry stems. Of the Ostrich Feather type, large, artistic and loosely arranged. Pkt., 15c.

### Queen of the Market.

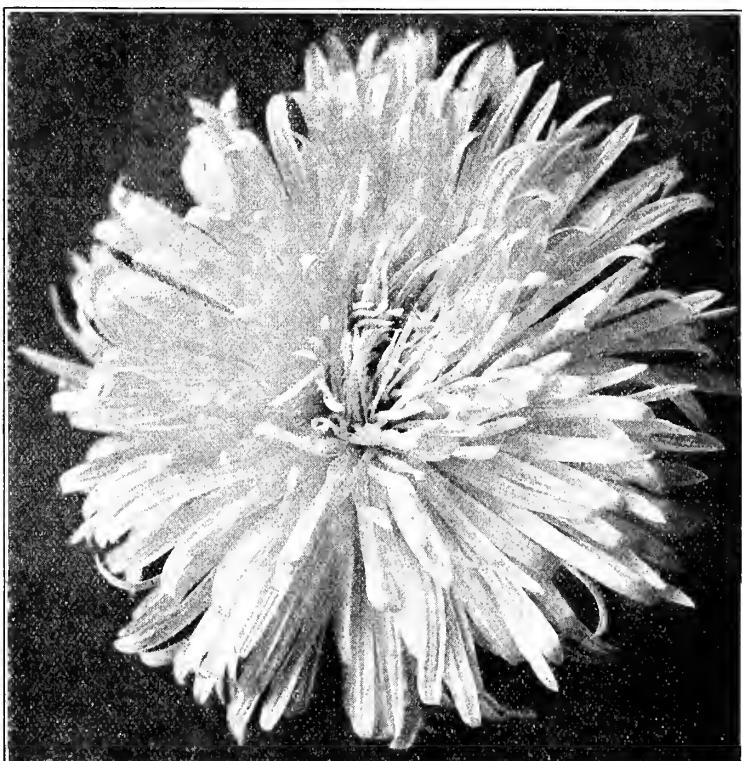
The earliest first-class Asters, coming into flower almost a month in advance of later sorts. The plants are of open habit, about 15 inches high, bearing on stems 10 to 15 inches long the finely formed double flowers. This is the standard variety among florists for early cutting.

2007. Crimson ..... pkt., 10c 2010. Lavender ..... pkt., 10c  
2008. Flesh Pink ..... pkt., 10c 2011. Purple ..... pkt., 10c  
2009. Rose Pink ..... pkt., 10c 2012. White ..... pkt., 10c  
2013. Finest Mixed Colors ..... pkt., 10c  
2014. Collection of 1 pkt. each of the above 6 colors ..... 50c

### Rochester Giant Comet Asters.

This is a new class of Asters of which the plants are like those of the Late Branching, large and strong. The flowers like all the Comet type have petals that are very long, narrow and gracefully recurved, giving them a lightness and grace that makes them the most artistic of all Asters. The immense size of the flowers—they are the largest Asters now in cultivation—their artistic beauty, delicacy of coloring and freedom of bloom make them superior to almost all others. They bloom in mid-season.

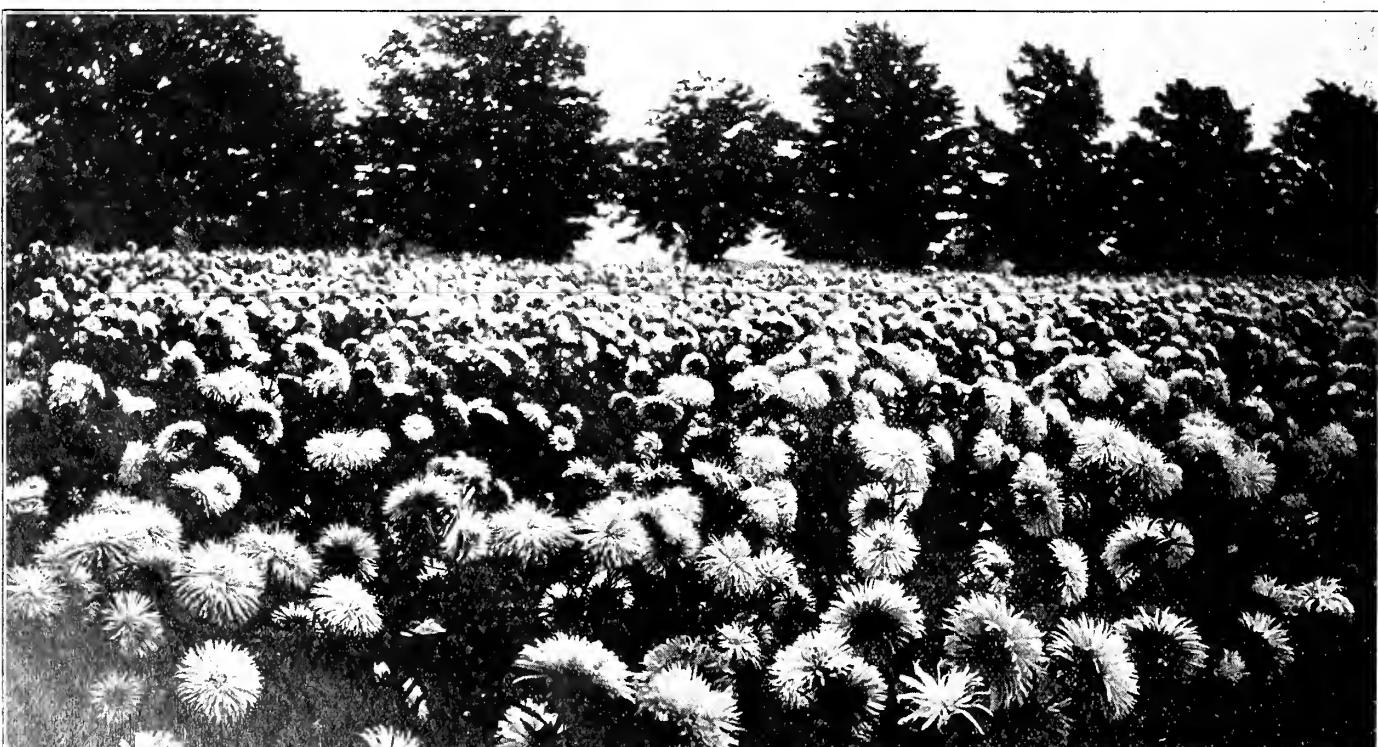
2015. Lavender ..... pkt., 15c 2018. Rose Pink ..... pkt., 15c  
2016. Purple ..... pkt., 15c 2019. White ..... pkt., 15c  
2017. Light Pink ..... pkt., 15c 2020. Finest Mixed Colors ..... pkt., 15c  
2021. Collection of 1 pkt. each of the above 5 colors ..... 60c



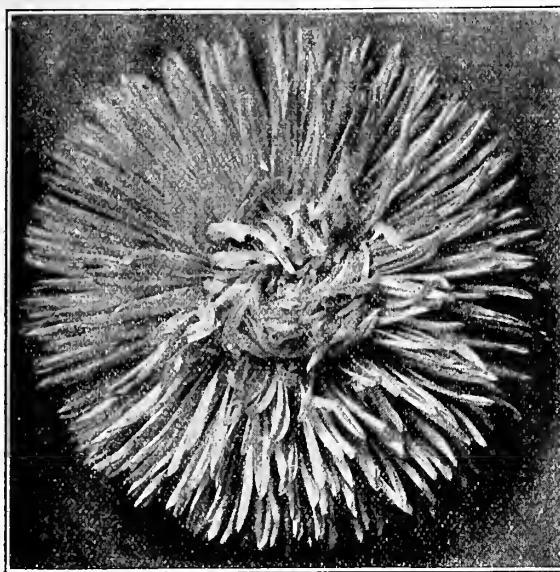
### Crego Giant Comet Asters.

This Aster resembles the Chrysanthemum very much in form. It is usually large, being 3 to 5 inches in diameter when well grown. The petals are very large, twisted and curled so as to give the blossoms a beautiful, fluffy appearance. They keep in good condition extra well when cut. The plants, of luxuriant, branching growth, attain a height of 18 inches to 2 feet, each plant bearing from 20 to 30 magnificent flowers on very long stems. We offer these in 6 shades, each distinct and deserving cultivation.

2023. Azure Blue ..... pkt., 15c 2027. Shell Pink ..... pkt., 15c  
2024. Lavender ..... pkt., 15c 2028. White ..... pkt., 15c  
2025. Purple ..... pkt., 15c 2029. Finest Mixed Colors ..... 75c  
2026. Rose Pink ..... pkt., 15c  
2030. Collection of 1 pkt. each of the above 6 colors ..... 75c



Magnificent Field of the New Crego Giant Comet Asters Grown for Seed Purposes.



### King Aster.

A magnificent class of Aster, distinct from others in the character of the flower. The long petals are folded lengthwise, appearing almost as if quilled. The flowers are of great size, full and large, of good substance and last very long when cut. The plants are large and the stems exceptionally long and strong.

2049. **Crimson King.** Very rich, deep crimson. A most striking and attractive variety for those who prefer this color. Pkt., 15c.

2032. **Pink King.** This is a beautiful and delicate lavender pink shade; it has the characteristic narrow petal of the class but the petals are not so closely folded as some of the others. This gives the flower a graceful, soft appearance. The plants are upright in growth. Pkt., 15c.

2033. **Rose King.** A very attractive Aster with large, handsome double-quilled flowers of a brilliant rose color. A great favorite among florists, lasting in perfect condition a long time. It is vigorous in habit, with stems frequently two feet long. Pkt., 15c.

2034. **Violet King.** The petals are twisted, curled and incurved in the center, completely covering the crown. The bloom is full and large; plants strong and free-branching. Season, mid-summer to frost; the color is a soft violet-lilac. Pkt., 15c.

2035. **White King.** This has the same handsome type of flower and upright growth of plant as the Violet King and makes a very pleasing contrast with that variety. The cut flowers have the splendid lasting quality characteristic of the King class. In season White King blossoms with the Late Branching and has all the vigor of that famous race. The plants are more upright in growth than the Violet King and Rose King. Pkt., 15c.

2036. **Finest Mixed King Aster.** Pkt., 15c.

2037. **Collection.** This includes one packet each of the above 5 colors; the 5 pkts., 60c.

### Semple's Improved Late Branching.

A grand, popular strain having all the characteristics of a good Aster.

The plants form strong, branching bushes 2 to 3 feet high, bearing on long, strong stems their handsome Chrysanthemum-like flowers averaging about 5 inches across. The form of the flowers and length of stem puts them in the front rank for cutting. They bloom late in the season.

2038. Azure Blue... pkt., 10c 2043. Mary Semple, 2043. Mary Semple,  
2039. Crimson.... pkt., 10c Shell Pink..... pkt., 10c  
2040. Dark Violet.... pkt., 10c 2044. Lavender.... pkt., 10c  
2041. Rose Pink.... pkt., 10c 2045. Purple..... pkt., 10c  
2042. Deep Rose.... Pink..... pkt., 10c 2046. White..... pkt., 10c  
2047. Finest Semple Mixed Colors..... pkt., 10c  
2048. Collection of one pkt. each of the above 9 colors..... 75c

### The New Asterum.

A strain of Comet Aster which on account of their immense size and Chrysanthemum-like appearance have been appropriately named Asterums. They attracted great attention when they were first exhibited a few years ago and have become increasingly popular ever since.

The plants grow about three feet high with strong stems and usually bloom a trifle earlier than the Creo Giant Comets. Few of the flowers are less than five inches in diameter.

2050. Dark Lavender..... pkt., 15c  
2051. New Shell Pink..... pkt., 15c  
2052. Rose Pink..... pkt., 15c  
2053. White..... pkt., 15c  
2054. Finest Asterum Mixed Colors..... pkt., 15c  
2055. Collection of 1 pkt. each of the above 4 colors..... 50c

## BEAUTIFUL AMERICAN ASTERS

### The Daybreak Aster.

These very desirable medium early Aster produce plants stiffly erect in habit of growth, which attain a height of 18 to 20 inches. The flowers form a ball about  $2\frac{1}{2}$  inches in diameter with regularly incurved petals, borne on long, stout stems.

2060. Blue.....	pkt., 25c	2065. Finest Daybreak Mixed Colors.....	pkt., 25c
2061. Lavender.....	pkt., 25c		
2062. Light Shell Pink.....	pkt., 25c	2066. Collection of 1 pkt.	
2063. Rose Pink.....	pkt., 25c		
2064. Shell Pink.....	pkt., 25c	each of the above 5 colors.	\$1.00

### 2070. Northrup, King & Co.'s Fire Ball.

The nearest approach to a pure, brilliant scarlet of any Aster yet introduced. The plants are literally covered with perfectly formed flowers of faultless Peony shape. Height, 10 to 12 inches. Pkt., 15c.

### 2072. New Red Aster "Sensation."

This is the reddest of all Red Aster, the color being a rich garnet or ox blood red which glistens in the sunshine like a live coal. The plants are of free branching habit, about 18 inches high; the very double flowers, averaging  $3\frac{1}{2}$  inches across, are borne freely on stems a foot long from early Aug. till late Sept. The intense color shows up well when cut, and makes a brilliant bit of color in a bed or border. Pkt., 15c.

### 2073. New Enchantress Pink Aster.

Immense flowers of a soft delicate pink which does not fade; borne in strong, upright plants. The plants are tall and strong and the flowers are the size of the largest Branching Aster. The flower is made up of broad petals, loosely arranged, producing an exceedingly soft and pleasing effect. Pkt., 25c.

### 2074. Giant Purity.

Large, double flowers of purest snowy whiteness; mid-season. Pkt., 25c.

### 2075. Pink Beauty.

This has been pronounced by experts to be the finest pink mid-season Aster. The bushy plants grow 24 to 30 inches high, and bear as many as 50 large chrysanthemum-like flowers of a delicate blush-pink. Pkt., 15c.

### 2076. Crimson Giant.

A superb, late branching Aster of upright growth. Flowers extra large, five inches or more across. Stems about 18 inches long, color rich blood crimson. Pkt., 15c.

### 2078. Peerless Pink.

One of the finest, late branching Aster. Flowers are a rich shell pink, four or five inches across. Robust grower and free-flowering. Pkt., 15c.

### Peony Flowered Perfection Aster.

Has double, large and beautiful flowers with incurved petals, resembling very much a Peony in shape. The plants are strong and upright, bearing handsome blooms on long, stiff stems. Extra fine for bouquet work. Height, 20 inches. 2080. Blue..... pkt., 15c 2082. Crimson..... pkt., 15c

### 2081. Snow White.

2083. Mixed Colors..... pkt., 15c

### New Royal Aster.

These form a new class of Aster in which the petals are very broad and distinctly incurved or shell-shaped. This produces an effect of shading that enhances the beauty of the color. Charmingly graceful, producing a Chrysanthemum-like effect.

In size the flowers are like the Late Branching Aster and the plants have the same sturdy vigor but are not so tall, branching close to the ground. They are earlier than the Branching Type and remain in bloom a long time.

### 2085. Lavender.

2088. Shell Pink..... pkt., 15c

### 2086. Purple.

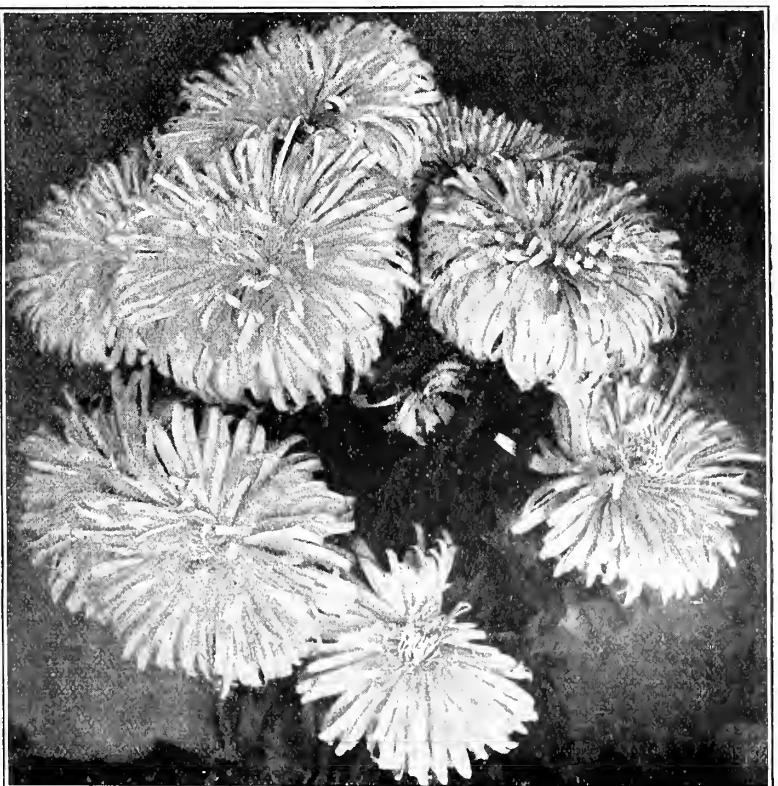
2089. White..... pkt., 15c

### 2087. Rose Pink.

2090. Finest Mixed New Royal..... pkt., 15c

### 2091. Collection of 1 pkt. each of the above 5 colors.

60c



The New Asterum

## SWEET ALYSSUM

**2105. Abutilon.** *Flowering Maple.* These grow rapidly and make fine, large bell-shaped flowers in great profusion. Pkt., 10c.

**2107. Adlumia.** *Allegheny Vine.* A graceful, hardy biennial climber, but as it resows itself year after year, may be considered a perennial. The feathery foliage closely resembles that of the Maiden Hair Fern, the flowers are tube-shaped, flesh-colored and completely cover the plant. Very desirable to cover trellises, stumps of trees, etc. Pkt., 10c.

**2108. Adonis.** Showy annuals of easy culture, with pretty, fine cut foliage, dark crimson flowers with light center. 1 foot. Pkt., 5c.

**Ageratum.** One of the best bedding and border plants, blooming from early Summer until frost. Flowers do not fade in the rain.

2110. Blue. Pkt., 5c. 2112. White. Pkt., 5c.

2113. Pink. Pkt., 5c. 2114. Dwarf Mixed. Pkt., 5c.

**Alyssum. Sweet.** A very pretty plant for beds, vases, baskets, edgings or rock work. Sweet scented and blooms profusely all summer.

2115. White. Oz., 35c; pkt., 5c.

2116. Little Gem. Very dwarf—4 inches—and spreading. They quickly become one mass of white, fragrant flowers, remaining in full bloom from Spring to Fall. Oz., 75c;  $\frac{1}{4}$  oz., 25c; pkt., 10c.

2117. *Saxatile.* Has handsome masses of bright yellow flowers. This variety is a hardy perennial, but blooms the first season. Grows 12 inches high. Pkt., 10c.

**Amaranthus.** Brilliant foliaged annuals, growing from 3 to 5 ft. high. Very useful in borders of tall plants or for the centers of large beds. Give plants plenty of room.

2118. *Caudatus.* *Love Lies BLEEDING.* Brilliant blood red of drooping habit, 3 ft. Pkt., 5c.

2120. *Tricolor.* *JOSEPH'S COAT.* Leaves red, yellow and green. Pkt., 5c.

2121. *Salicifolius.* *FOUNTAIN PLANT.* Willow leaved. Height 3 ft. A most effective plant. Foliage bronzy-crimson. Pkt., 10c.

2122. *Sunrise.* A most beautiful plant; height, two feet; the leaves are long and narrow, the upper ones of the brightest glowing crimson. Pkt., 10c.

2123. **Ambrosia.** A hardy annual with long spiral stems, bearing an abundance of small, round, greenish-yellow buds and blossoms, which are exceedingly fragrant. It is as desirable as the Rose Geranium as a plant with fragrant foliage and for making up into bouquets and other floral work. Its long, beautiful, fringy spirals of lovely green are unsurpassed. It is one of the easiest plants to grow and seeds may be sown early in open ground. Pkt., 5c.

## ANCHUSA. CAPE FORGET-ME-NOT.

A rare annual of great beauty. Grows two feet high. It will thrive in a shady, out-of-the-way place where scarcely anything else will grow. It resembles a large beautiful Forget-Me-Not of deep blue color. Blooms all Summer. Pkt., 5c.

## ANTIRRHINUM OR SNAPDRAGON.

Snapdragons were a feature of the old-fashioned garden. Then for a time they were neglected, but suddenly when the improved new sorts appeared, they became one of the most fashionable bouquet flowers. Today they are being raised in gardens everywhere since the splendid flower spikes appearing all Summer, are as valuable for bedding effects as for cutting and form a pleasing contrast to some of the stiffer, coarse annuals.

**Culture.** Should be sown in open ground the latter part of May. It is best to start seeds indoors in a shallow box or in a hot-bed, in a temperature of about 65 degrees. Cover seeds to a depth of four times their size and press surface firm with a board. Water with a fine spray. Transplant seedlings after second leaves form and remove to garden when weather is warm and settled. All Giant varieties, per pkt., 10c.

2127. *Giant White* 2130. *Giant Yellow*

2128. *Giant Scarlet* 2131. *Giant Pink*

2129. *Giant Garnet* 2132. *Giant Striped*

2133. *Giant Mixed*

2134. *Queen of the North.* Grows 1 foot high and densely covered with large white flowers. A gem for beds and borders, valuable for pot culture. Pkt., 5c.

2135. *Tom Thumb Mixed.* Large variety of colors; best for bedding. Pkt., 5c.

2136. *Tall Mixed.* Extra fine selection, best for cutting.  $\frac{1}{4}$  oz., 25c; pkt., 5c.

**2140. Arctotis.** *Blue Eyed African Daisy.* A remarkably handsome new annual. It forms a branching bush 2 to 3 feet high. Its flowers are large and showy, being pure white on the upper surface, the reverse of petals being a pale lilac blue. It is of easiest culture and flowers from early Summer until late Fall. Pkt., 10c.

**Culture for Arctotis.** Sow in the open ground when danger from frost is past.

Cover the seeds to a

depth of four times

their size and

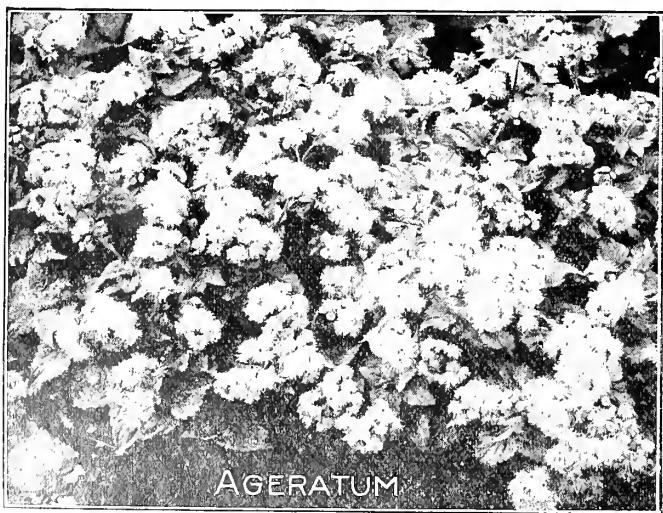
press surface firmly

with a board.

Water with fine spray.



ANTIRRHINUM OR SNAPDRAGON



AGERATUM



ARCTOTIS

2142. *Artemisia saccorum*. Summer Fir. Ornamental foliage plant from China. Makes a handsome pot plant and may also be grown successfully in groups or borders. Pkt., 15c.

2145. *Asparagus plumosus*. Probably the most popular house plant today. You can grow it for yourselves and neighbors. The leaves are bright green, gracefully arched, surpassing Maiden Hair Ferns in grace, delicacy of texture and richness of color. Pkt., (7 seeds) 10c; 25 seeds, 25c.

2150. *Balloon Vine*. Annual climber of rapid growth; foliage like miniature balloons. Height 8 feet; succeeds best in light soil and warm situation. Oz., 25c; pkt., 5c.

**Bachelor's Button.** Also known as Centaurea, Corn-flower, Blue Bottle, Ragged Sailor, etc. These are among the most attractive of all hardy annuals and one of the most popular of all old-fashioned flowers.

2152. Blue. This is the dark blue sort so much in demand for cutting. Oz., 30c; pkt., 5c.

2153. White. Oz., 30c; pkt., 5c. 2154. Mixed. All varieties. Oz., 25c; pkt., 5c.

2151. Double Bachelor's Button. All colors mixed. 1/4 oz., 25c; pkt., 10c.

**Balsam or Lady Slipper.** old and favorite garden flower, producing its gorgeous masses of beautiful, brilliant colored double flowers in the greatest profusion; of easy culture; succeeds in a good rich soil. Our strain is unrivaled for great variety and size of flowers. 2 feet.

**Culture.** Sow out of doors, when danger from frost is over, in the bed or border where they are to flower. The soil should be well pulverized and the seed covered to a depth of about four times their size. Press down firmly with a board, and thin out so that the plants will not become crowded. For early flowering they should be sown indoors in a shallow box, or in a hot-bed, and transferred to the open ground when the weather becomes suitable.

2155. Snow White.....pkt., 5c. 2158. Scarlet.....pkt., 5c.

2156. Pink.....pkt., 5c. 2159. Light Lemon.....pkt., 5c.

2157. Scarlet, spotted white.....pkt., 5c.

2160. Solferino, white, striped with purple scarlet.....pkt., 5c.

2161. Victoria, satin-white, spotted with scarlet.....pkt., 5c.

**Northrup, King & Co.'s Sterling Balsam.**

2162. Mixed. The finest mixture possible to combine, representing the best selections from the most celebrated specialists of Europe. The flowers are very large, measuring from two to three inches in diameter, of perfect form, resembling the flower of the Camelia, and are as double, in fact, the petals are so densely produced that the yield of seed is extremely small, one single plant often producing not more than five seeds. The colors of the flowers are varied and brilliant, comprising pure white, crimson, white shaded lilac, rose, spotted, scarlet, blue, purple and many other tints. 1/4 oz., 25c; pkt., 10c; 3 pkts. for 25c.

2165. **Balsam Apple and Pear.** Very curious, rapid and dense climbers, with ornamental foliage and golden-yellow fruit, which opens when ripe, showing the seed and blood-red interior. Apple and Pear mixed, pkt., 5c.

2166. **Bartonia aurea**, the Evening Primrose. Valuable for borders. One foot in height. Pkt., 5c.

2167. **Bean, Scarlet Runner.** The well known rapid-growing annual climber, producing bright red flowers, from July to September. The foliage being dense, makes it splendid for porches or wherever shade is desired. Pkt., 10c; 1/4 lb., 20c.

**Begonias. Everblooming Bedding Varieties.**

The following are varieties of *Begonia Semperflorens*, and take rank as bedding plants with *Geraniums* and *Coleus*, doing equally well in full sunlight, and surpassing both in positions partially or wholly in shade. They are of sturdy growth, growing about 1 foot high and forming dense bushes, which, from May until frost, are completely hidden with flowers. As pot plants for Winter flowering they are superb, remaining a sheet of bloom throughout the year. Easily raised from seed.

2169. *Vernon Grandiflora*. A large flowering form of the above. The flowers are very large and bright orange-carmine in color. The foliage is a beautiful deep red. Pkt., 25c.

2172. *Semperflorens*, Mixed. This mixture contains all the best varieties, ranging in color from pure white to the deepest crimson. Pkt., 25c.

**Begonia.** Tuberous-Rooted. Plants of great value for Summer decoration or window gardening, blooming the first season from seed, if sown in February or March, in a temperature of 60 degrees. To secure the best of results they should be planted out as soon as the ground becomes warm. They are covered the whole Summer with bright and elegant flowers.

2173. Single, all colors, mixed. Pkt., 25c.

2174. Single frilled varieties, mixed colors, pkt., 25c.

2176. **Bidens dahlidioides**. One of the finest additions to the list of annuals for cut flowers. The blossom is suggestive of the Dahlia and *Coreopsis* with both of which this plant is allied. The flowers which are produced on long stems are large, single, pink or white with yellow centers. The seeds should be started inside and planted out when danger of frost is over. They do best in a sunny location, but need cool, moist soil, so it is well to keep the ground well mulched. See illustration on page 60. Mixed, pkt., 15c.

2175. **Bird of Paradise. Poinciana Gillesi**. The flowers are golden-yellow in color, measuring 2 1/2 inches across, and are produced in very large trusses. The beautiful part of the flower is the large pistils, which are spread out in fan-like form and are of bright crimson color. The foliage is also highly decorative, reminding one of a very delicate *Acacia*. If the seed is started early it will bloom freely the first year. Pkt., 15c.

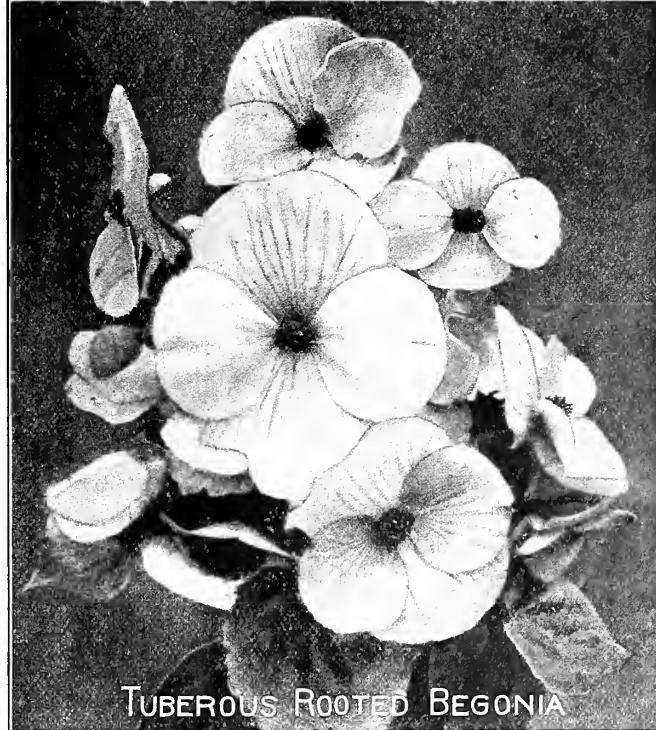
2177. **Brachycome. Swan River Daisy**. Free-flowering, annual, covered during the greater part of the summer with a profusion of pretty blue or white flowers; suitable for edgings. Pkt., 5c.

**Browallia.** A favorite profuse-blooming bedding plant, covered of intense blue; grows freely in any rich soil.

2178. *Speciosa Major*. Large-flowering variety, brilliant ultramarine blue, a rare color. Especially valuable as a pot plant. Pkt., 15c.

2180. *Elatia Coerulea*. Large sky blue flowers with a white center. Plants 18 inches high. Pkt., 10c.

2194. **Calceolaria**. Large flowering plant. These gorgeous plants are especially suited for window decoration. The immense pocket-shaped flowers are borne in the greatest profusion. Colors are yellow, maroon, crimson, white, etc., spotted and blotched in the most unique manner. 1 1/2 feet. All colors mixed, pkt., 50c.



**Calendula. Pot Marigold.** Freely flowering plants of easiest culture, succeeding everywhere and flowering continuously. Flowers double, showy, of large size and pleasing colors. One of the best old-fashioned flowers.

2185. **Meteor.** Large, double yellow, striped with orange, very showy. Pkt., 5c.  
2187. **Prince of Orange.** Resembles Meteor but is much darker, especially fine. Pkt., 5c.  
2188. All colors mixed. Pkt., 5c. For other Marigolds, see page 65.

**Calliopsis or Coreopsis.** Showy and beautiful free-flowering annuals, blooming all summer; excellent for cutting and massing.

2184. **Crown of Gold.** Large, rich golden yellow. Height 18 inches. Fine for cutting.  $\frac{1}{4}$  oz., 30c; pkt., 1c.

2186. **Crimson King.** An excellent dwarf variety; color, velvety crimson garnet. Height nine inches.  $\frac{1}{4}$  oz., 15c; pkt., 5c.

2190. **Coronata.** Showy, large, pure yellow flowers; excellent for bedding. Pkt., 5c.

2191. **Drummondii, Golden Wave.** Rich golden-yellow with small chestnut-brown center; very freely flowering.  $\frac{1}{4}$  oz., 15c; pkt., 5c.

2192. **Nigra Speciosa, Crimson.**  $\frac{1}{4}$  oz., 15c; pkt., 5c.

2193. **Mixed Colors.** Oz., 30c; pkt., 5c. **Tropaeolum Canariense.** A beautiful rapid annual climber, the charming little canary bird blossoms bearing a fancied resemblance to a bird with its wings half expanded. Oz., 40c; pkt., 5c.

**Canary Bird Vine.** Universally known and cultivated. When sown in April, flowers from July until frost.

2197. **Giant Hyacinth Flowered.** Produces long heads of pure white flowers. Oz., 75c; pkt., 10c.

2189. **Purple.** Oz., 25c; pkt., 5c.

2198. **White Rocket.** Oz., 25c; pkt., 5c.

2201. **Crimson.** Oz., 25c; pkt., 5c.

2196. **Empress.** Splendid white, pyramid shape. Pkt., 10c.

2202. **Lavender.** Oz., 25c; pkt., 5c.

2203. **Mixed Colors.** Oz., 25c; pkt., 5c.

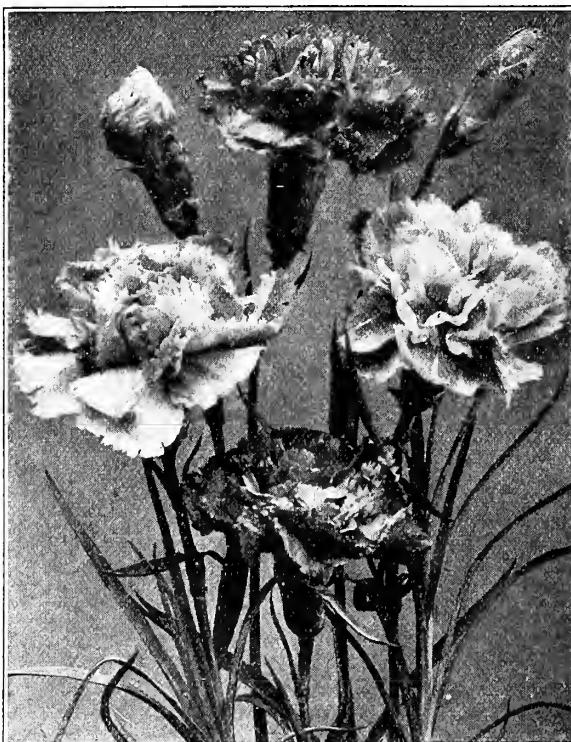
See page 76 for Perennial Candytuft or Iberis Semperflorens.

#### 2204. **Canna. Indian Shot.**

Dwarf Large Flowering French. Unquestionably the finest of bedding plants for the American climate and easily grown from seed. Soak the seeds in warm water until they swell, then sow in sandy loam and place in a hotbed. When up to the second leaf pot off singly and keep under glass until the proper season for planting. A mixture of many varieties. Oz., 25c; pkt., 10c.

#### 2199. **Cardinal Climber.**

A graceful annual vine growing readily from seed. It is a strong and rapid climber, with beautiful fern-like, fine cut foliage, covered with a blaze of circular, cardinal-red flowers from Mid-Summer until frost. This vine is becoming very popular. It is a valuable addition to our annual climbers and entirely distinct in its beauty. In the Armory Gardens at Minneapolis it has been greatly admired by all visitors. Soak seed until it swells then start indoors and transplant outside after all danger of frost is over. Pkt., 25c.



Marguerite Carnations.

white, variegated, etc., exquisitely sweet and fully eight per cent perfectly double. Seeds sown early in the year will give an abundance of flowers in July. Sown in May and kept pinched back, plants will bloom late in the Fall until checked by hard frosts. If protected by coarse straw litter they will live through the Winter and flower early the following Summer.

2207. **Deep Crimson** ..... Pkt., 15c. 2210. **Fiery Scarlet** ..... Pkt., 15c.  
2208. **Sulphur Yellow** ..... Pkt., 15c. 2211. **Striped** ..... Pkt., 15c.  
2209. **Bright Rose** ..... Pkt., 15c. 2212. **Pure White** ..... Pkt., 15c.

2213. Collection of one packet each of the above colors, 75c.

2214. Mixture of all colors Marguerite Carnations. Pkt., 10c;  $\frac{1}{2}$  oz., 35c;  $\frac{1}{2}$  oz., 60c.

Marguerite Carnations in separate colors.  $\frac{1}{2}$  oz., 25c;  $\frac{1}{2}$  oz., 40c;  $\frac{1}{2}$  oz., 75c; oz., \$1.25.

**Giant Marguerite Carnations.** An improved strain producing flowers of immense size, frequently measuring  $2\frac{1}{2}$  to 3 inches across. Strong, vigorous growers and wonderfully free-flowering.

2215. **Mixed Colors.**  $\frac{1}{2}$  oz., \$1.00; pkt., 15c.

2217. **Centrosema. Butterfly Pea.** A hardy vine of rare beauty, flowering in July from seed sown in April. Flowers range in color from rosy-violet to a reddish-purple, with a broad feathery white marking through the center; inverted pea-shaped; borne in great profusion. Pkt., 10c.

**Celosia Cristata. Cockscomb.** Freely blooming annuals; grow best in light soil not too rich. They make splendid border plants.

2218. **Empress.** (Colossal size). Some measure 4 feet from tip to tip, color rich crimson. Pkt., 10c.

2219. **Queen of the Dwarfs.** This is the best of the dwarf growing Cockscombs. The plants grow only 8 inches high with beautiful dark rose-colored combs, often 2 feet across. Pkt., 10c.

2220. **Variegata.** Variegated with crimson, orange, green, striped, etc. Three feet. Pkt., 15c.

**Celosia Plumosa. Feathered Cockscomb.** These make fine plants for large beds or groups.

2221. **Thompson's Superb.** Of pyramidal growth, attaining a height of a little more than two feet and producing graceful, feathery plumes of the most brilliant crimson. In the sunlight the rich color of the flower spikes is beautifully contrasted with the bronze-colored foliage. Pkt., 10c.

2222. **Golden Plume.** Bright golden-yellow plumes. Pkt., 10c.

2223. **Plumosa, mixed. Feathered.** All colors. Pkt., 10c.

**Centaurea Imperialis. Sweet Sultan.** This is without doubt the most beautiful of all the Centaureas. The beautiful sweet scented, artistic shaped flowers are borne on long, strong stems and when cut will stand for days in good condition. The plant itself is much stronger than any other Sweet Sultan. It is of very easy culture. One of the best annuals for cut flowers.

2225. **Alba.** Pure white. Large pkt., 10c. 2227. **Armida.** Pale lilac. Large pkt., 10c.

2228. **Favorite.** Rosy lilac. " 10c. 2229. **Graziosa.** Purple. " 10c.

2230. **Splendens.** Purplish lilac. " 10c. Collection of one pkt., each of above five var's, 40c.

2231. **All Colors Mixed.** Large pkt., 10c;  $\frac{1}{2}$  oz., 25c.



Bidens Dahliaoides. Page 59.

#### Carnations.

Carnations are general favorites because of their rich colors, spicy fragrance and profusion of flowers. All the following varieties do well from seed, but the Marguerite and Chabaud types are the best for summer flowering.

#### Everblooming Chabaud Carnations.

A new strain raised by M. Chabaud, the Carnation specialist of France. The plants are of even height as if trimmed, the stalks very stiff, the flower large, double and deliciously sweet. It has the largest and most charming color variation. These usually bloom in five months from time of sowing.

2205. **Fine Mixed.** 3 pkts., 35c; pkt., 15c.

**Carnation Grenadin.** The best scarlet Carnation for out-door blooming. Comes into bloom very early. The beautiful, double, scarlet flowers are borne in great profusion and are very valuable for bouquets and cut flower use.

2206. **Brilliant Double Scarlet.** Pkt., 15c.

**Marguerite Carnations.** This new class of Carnations blooms in about five months after sowing. The flowers are of brilliant colors, ranging through many beautiful shades of red, pink, white, variegated, etc., exquisitely sweet and fully eighty per cent perfectly double. Seeds sown early in the year will give an abundance of flowers in July. Sown in May and kept pinched back, they will live through the Winter and flower early the following Summer.

2207. **Deep Crimson** ..... Pkt., 15c. 2210. **Fiery Scarlet** ..... Pkt., 15c.

2208. **Sulphur Yellow** ..... Pkt., 15c. 2211. **Striped** ..... Pkt., 15c.

2209. **Bright Rose** ..... Pkt., 15c. 2212. **Pure White** ..... Pkt., 15c.

2213. Collection of one packet each of the above colors, 75c.

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Marguerite Carnations in separate colors.  $\frac{1}{2}$  oz., 25c;  $\frac{1}{2}$  oz., 40c;  $\frac{1}{2}$  oz., 75c; oz., \$1.25.

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2222. **Golden Plume.** Bright golden-yellow plumes. Pkt., 10c.

2223. **Plumosa, mixed. Feathered.** All colors. Pkt., 10c.

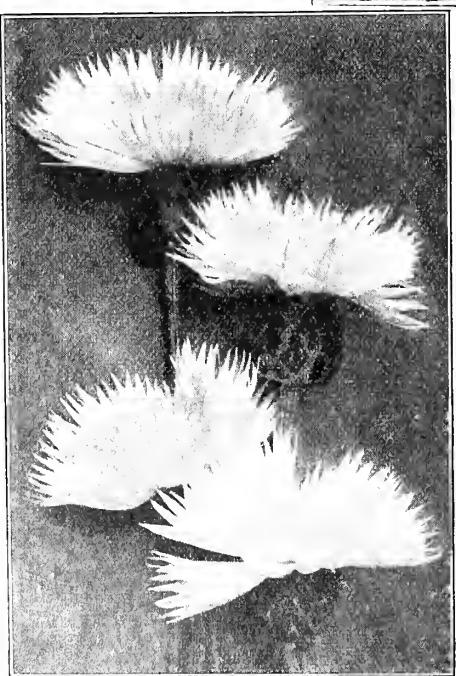
**Centaurea Imperialis. Sweet Sultan.** This is without doubt the most beautiful of all the Centaureas. The beautiful sweet scented, artistic shaped flowers are borne on long, strong stems and when cut will stand for days in good condition. The plant itself is much stronger than any other Sweet Sultan. It is of very easy culture. One of the best annuals for cut flowers.

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2230. **Splendens.** Purplish lilac. " 10c. Collection of one pkt., each of above five var's, 40c.

2231. **All Colors Mixed.** Large pkt., 10c;  $\frac{1}{2}$  oz., 25c.



Centaurea Imperialis. Sweet Sultan

**2232. Centaurea Margarita. Giant White Sweet Sultan.** The flowers of this greatly improved variety are much larger than the older sorts. They are pure white, deliciously scented, with long stalks, and last very well in water.  $\frac{1}{8}$  oz., 25c; pkt., 10c.

**2233. Centaurea Gymnocarpa. Dusty Miller.** Silvery-white, leaves broadly cut—very popular foliage plant for bedding, hanging baskets and pots, extensively used for edging Geranium beds, Cannas and Salvias. Sow seed early indoors and transplant in May. Pkt., 10c.

**Chrysanthemum.** extensively grown for cut flowers. The foliage is ornamental and finely cut. The single varieties grow 12 to 18 inches high and produce on long stems large flowers resembling the Daisy, but of many bright colorings in distinct bands or rings.

2235. Finest Mixed, Single. .... Pkt., 5c 2239. Double White. .... Pkt., 5c  
2237. Finest Mixed, Double. .... Pkt., 5c 2240. Double Golden Yellow. .... Pkt., 5c  
See Perennial Chrysanthemum, page 74.

**Cineraria.** Magnificent and indispensable flowering plants for the conservatory or window garden. The flowers measure 2 to 3 inches across, are of white, blue, violet and crimson shades; usually two or more colors are shown in one flower.

2242. Double Large Flowering, mixed. Pkt., 50c.

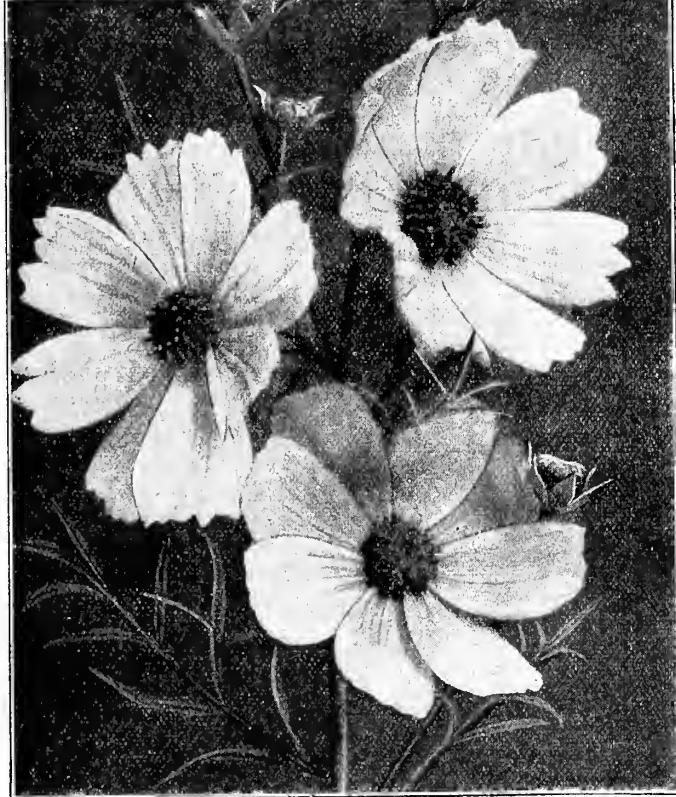
**Clarkia.** Bright and attractive annuals of easy culture. The long graceful sprays are valuable for table decoration. They thrive in sun or shade, growing 2 to  $2\frac{1}{2}$  feet high, with masses of double flowers, which all open in water when cut.

2241. Brilliant. Rich crimson-scarlet, very double. Pkt., 10c.

2243. Salmon Queen. Salmon-pink, extra double. Pkt., 10c.

2253. Scarlet Queen. Brilliant orange-scarlet, a rare shade. Pkt., 10c.

2244. Double. All colors mixed. Oz., 75c; pkt., 10c.



Northrup, King & Co.'s Extra Early Cosmos.

### Northrup, King & Co.'s Extra Early and Mammoth Cosmos.

Cosmos is the showiest of our late Summer and Autumn blooming annuals. Its graceful flowers borne on long stems, rising above the feathery foliage are very desirable for home or church decoration, lasting a week or more in water. It is a very prolific bloomer and if the plants are given enough space to develop well, will branch freely, every shoot being covered with a mass of lovely flowers. Cosmos is very effective among shrubbery and especially desirable for interplanting with early blooming perennials as it fills in the gaps when the latter die down.

**Extra Early Cosmos.** The earliest flowering variety in cultivation, blooming fully two months in advance of any other strain known. Seeds sown in open ground, in early May, will produce blooming plants in July, and continue a mass of bloom until killed by frosts. It is the result of painstaking selection from a few plants several years ago, which showed a decided tendency to earliness. This desirable trait is so well established, that instead of a few plants coming early,—as in other early varieties—our Extra Early Cosmos is uniformly so, and will bloom in any part of the North. The plants grow about four feet tall.

2262. Northrup, King & Co.'s Extra Early. All colors, mixed,  $\frac{1}{4}$  oz., 35c; pkt., 10c.  
2263. Extra Early Crimson. Pkt., 10c. 2266. Extra Early White. Pkt., 10c.

2265. Extra Early Rose. Most pleasing color of all. Pkt., 10c.

2267. Collection. Packet each of three colors, 25c.

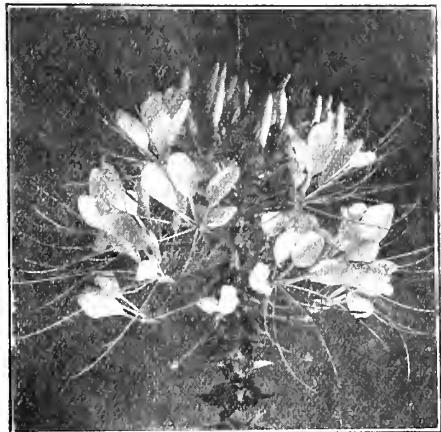
2254. Dawn. This variety comes into flower in July, growing from 4 to 5 feet high. The flowers are large, the color a beautiful white, relieved by a delicate tint of rose at the base of the petals. Pkt., 10c.

**Mammoth Cosmos.** The following varieties of Cosmos usually do not start blooming until several weeks after the Extra Early sorts, consequently they are sometimes nipped by early frost. To insure success therefore, it is best to start all Mammoth varieties in doors in early April, later transplanting them to the garden when danger of frost is over. By this method they start to bloom in good season and the very large flowers well repay the extra trouble.

2255. Mammoth Crimson. Pkt., 10c 2259. Mammoth White. Pkt., 10c

2257. Mammoth Pink. Pkt., 10c 2261. Mammoth Yellow. Pkt., 10c

2260. Mammoth Mixed. All colors. Pkt., 10c.



Cleome Pungens. Giant Spider Plant.

**2246. Cleome Pungens. Giant Spider Plant.** Grows four to five feet high, strong and sturdy. Flowers borne in abundance, rosy-pink fading to white. Seed pods give the appearance of a big spider. Used largely in the Minneapolis parks. Very attractive for beds and mass planting. Pkt., 10c.

**Cobaea Scandens. Cathedral Bells.** One of the handiest and most rapid growing of the annual climbers. Climbs thirty feet in a season. The flowers are bell-shaped. Very prolific and perfectly hardy. The vine is always clean and free from insects.

2245. White, ptk., 10c. 2247. Blue, ptk., 10c. 2249. Mixed, ptk., 10c.

**2250. Coccinea Indica.** Scarlet-fruited Ivy-leaved. An attractive annual climber of the Gourd family. The leaves are smooth, glossy and ivy-like, contrasting beautifully with the snow white, bell-shaped flowers and brilliant scarlet fruit. Pkt., 10c.

**2248. Coix Lachryma. Job's Tears.** An ornamental grass

with broad leaves and shiny, pearl-like seeds, used for beads. Plant early in the Spring, four or five seeds in a hill, one-half inch deep. Three feet high. Oz., 25c; ptk., 5c.

**Coleus.** The most largely used, perhaps, of all bedding plants.

These are easily grown from seed.

2251. Mixture of Fancy Fringed Coleus. Pkt., 50c.

2252. Mixed Coleus. Tall growing plants of many bright colors. Pkt., 50c.

**2268. Cosmidium Burridgeanum, Orange Crown.** Very handsome new annual, forming elegant, many-branched

pushes of  $1\frac{1}{2}$  to 2 feet in height. The flowerheads,  $1\frac{1}{2}$  to 2 inches in diameter, are carried on long, slender, but self-supporting stems well above the graceful, linear foliage. Ray florets golden yellow with a broad conspicuous circle of a rich orange around the disc, a pleasing combination of colors. The plants produce a constant succession of bloom throughout the Summer and the flowers last well in water. Pkt., 20c.

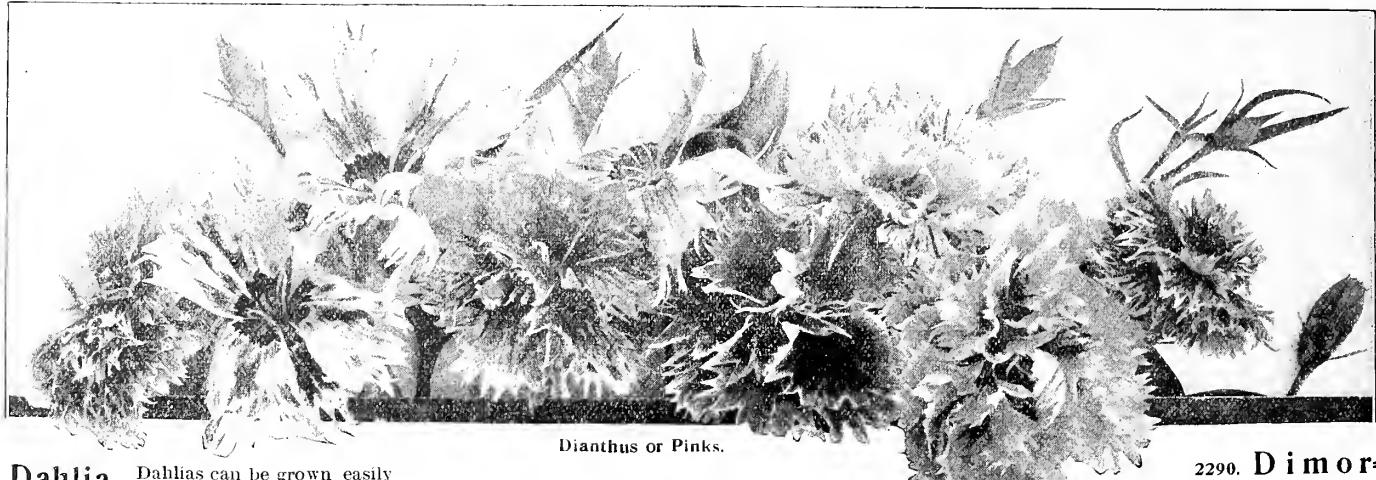
**2270. Cyclamen. Giant Flowered.** Charming plants with beautiful foliage and rich colored fragrant flowers. Considered by many to be the finest Winter flowering plant we have. Seed may be sown Spring or Autumn. The culture of Cyclamen from seed is much more satisfactory than from bulbs. Mixed colors. Pkt., 35c.

**Culture for Cyclamen.** Sow the seed in gentle heat, in shallow boxes or pans filled with a compost of sandy loam, leaf mould and coarse sand. Sow seed on surface and cover with two inches of wet sphagnum moss. Water carefully and keep at a uniform temperature of 50 to 60 degrees. When the plants have made 2 leaves transplant into small pots.

**2272. Cypress Vine.** One of the most popular vines with its delicate fern-like foliage and mass of beautiful star-shaped flowers. All colors mixed, oz., 75c; ptk., 10c.



Giant Flowered Cyclamen.



Dianthus or Pinks.

**Dahlia.** Dahlias can be grown easily from seed so as to produce flowers the first year. This is as true of double Dahlias as of single. In the Dahlia are combined more desirable qualities than are found in almost any flower grown in the open ground. It can be had in perfection from June until cut down by frosts. In it can be found not only every imaginable color except blue, but the most beautiful combination of colors and marvelous blending of shades and tints imaginable. As a cut flower the Dahlia is unsurpassed, owing to its great diversity of bloom and the brilliant luster of its colorings.

**2275. Northrup, King & Co.'s Sterling Mixed Dahlia.** This mixture is intended to embrace seed of every desirable Dahlia procured from the most prominent Dahlia specialists of this and other countries, and blended by us. Full directions for culture (which is of the very easiest) sent with every packet. Pkt., 25c.

**2276. Twentieth Century or Orchid Flowered Dahlia.** In size the flowers are giants,  $4\frac{1}{2}$  to 7 inches across, and in color vary from almost pure white to deep crimson. These large single flowers are truly magnificent. Pkt., 25c.

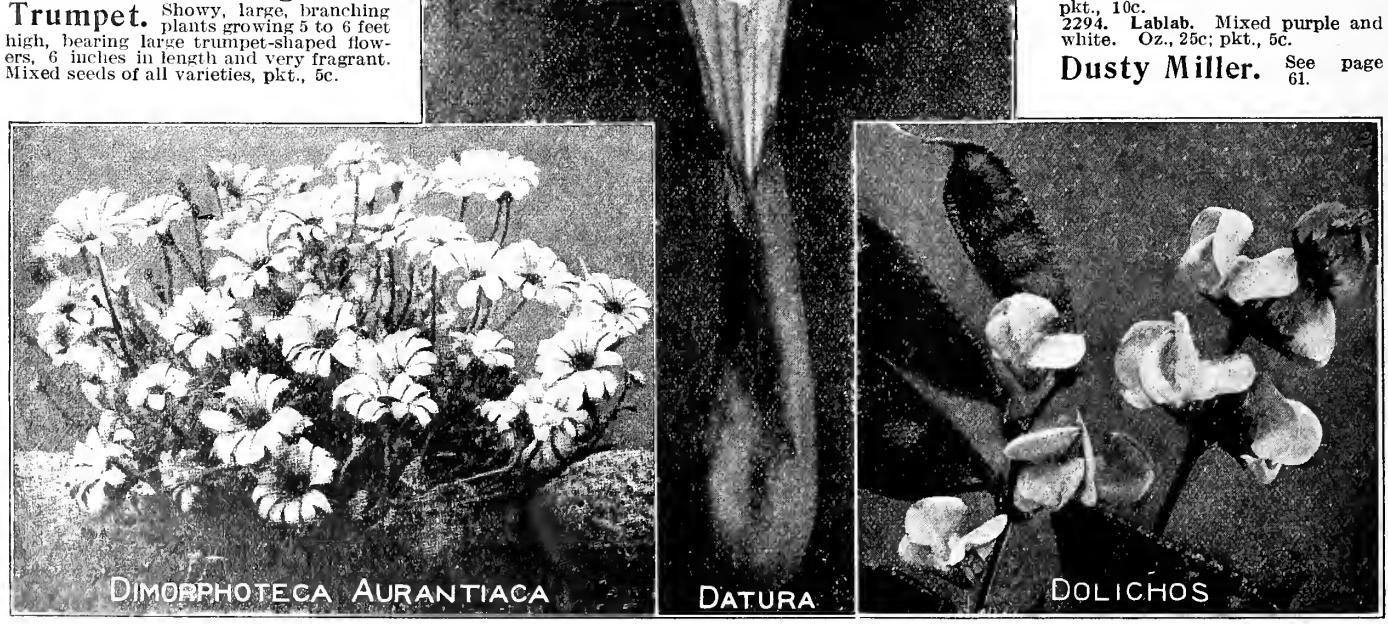
**2277. Double Cactus Dahlia.** Very desirable; many colors. Pkt., 25c.

**2278. Double Dahlia.** Very large flowering, fine mixed. Pkt., 25c.

**2279. Single Mixed Dahlia.** All colors. Pkt., 25c.

**2282. Datura. Angel's Trumpet.**

Showy, large, branching plants growing 5 to 6 feet high, bearing large trumpet-shaped flowers, 6 inches in length and very fragrant. Mixed seeds of all varieties, pkt., 5c.



DIMORPHOTHECA AURANTIACA

DATURA

DOLICHOS

**2290. Dimorphotheca**

**Aurantiaca. Orange**

**African Daisy.** A rare and extremely showy annual Daisy from South Africa which thrives under our climatic conditions perfectly. The bushy plants grow 12 to 15 inches high. The flowers,  $2\frac{1}{2}$  inches across, are a unique, rich, glossy orange-gold, with dark disc and these glitter in the sunshine and present a magnificent sight. Seed may be sown in the same way as Aster. They bloom the greater part of Summer and Fall. Pkt., 10c.

**Dolichos. Hyacinth Bean.**

A rapid growing and free-flowering annual climber. The seed pods which follow the flower are very ornamental for covering arbors, trellises, etc. After danger of frost is over, sow the seeds where they are to remain. The soil should be well pulverized and the seed covered to a depth of about 4 times their size. Press down firmly with a board, and thin out so that the plants will not become crowded. For early flowering they should be sown indoors in a shallow box, and transferred to the open ground when the weather becomes suitable.

**2292. Daylight.** Early becomes covered with spikes of snow white, pea-shaped blossoms, which continue until late in Fall. Oz., 30c; pkt., 10c.

**2293. Darkness.** Identical with "Daylight" except in color, which is a rich purple violet. Oz., 30c; pkt., 10c.

**2294. Lablab.** Mixed purple and white. Oz., 25c; pkt., 5c.

**Dusty Miller.** See page 61.



GAILLARDIA

HELIANTHUS. SUNFLOWER

ESCHSCHOLTZIA OR  
CALIFORNIA POPPY

ECHINOCYSTIS. WILD CUCUMBER

**2295. Echinocystis. Wild Cucumber Vine.** A well known vine, common in many sections, and the quickest climber known for covering verandas, old trees and houses, trellises, etc., never suffering from the heat but retaining its fresh and lively green color; never infested with insects, and very profuse in bloom. It will sow itself and come up in the same place. Sow seed in Fall. Oz., 25c; pkt., 5c.

**Eschscholtzia. California Poppy.** The California Poppy is a showy, free-flowering plant so popular with everyone as scarcely to need introduction. Particular attention is drawn to *Hunnemannia* often called Bush Eschscholtzia, offered on page 64. This is a beautiful herbaceous perennial, which flowers freely the first year and bears a great abundance of brilliant yellow tulip-shaped flowers. Do not overlook this beautiful variety in placing your orders.

**2300. Golden West.** Bright yellow with large rayed blotches of deep orange at base of petals. Oz., 50c; pkt., 5c.

**2301. Mandarin.** Inner side of the petals rich orange, outer side brilliant scarlet. Oz., 30c; pkt., 5c.

**2302. Rose Cardinal.** Large flowers of intense carmine. Oz., 40c; pkt., 10c.

**2304. Crimson.** Very rich color, one of the most beautiful. Oz., 50c; pkt., 10c.

**2303. All Colors, Mixed.** Oz., 30c; pkt., 5c.

**2305. Fuchsia. Double and Single Mixed.** Fuchsias are as easily grown from seed as from cuttings, and from seed many new varieties are obtained. They will flower freely the first year in the open ground, while the plants can be taken in the house in the Winter, where they will flower freely. Pkt., 50c.

**Gaillardia. Blanket Flower.** Remarkable for the profusion, size and brilliancy of the flowers, blooming from early Summer until November. Excellent for borders or for cutting. Oz., 20c; pkt., 5c.

**2307. Picta Lorenziana.** A charming, profuse, double flowering strain. Beautiful mixed colors.  $\frac{1}{4}$  oz., 20c; pkt., 5c.

**2308. All Annual Varieties, Mixed.**  $\frac{1}{4}$  oz., 20c; pkt., 5c.

Perennial Varieties. See page 74.

**Geranium.** Comparatively few are aware that Geraniums may be grown easily from seed and flower the first season if sown early. This is the best way to secure Geraniums as they will frequently reward the cultivator with charming new varieties. In fact, propagation by seed is the only way to obtain new varieties.

**2310. Zonale, Mixed.** A superb strain of the largest and finest varieties. Pkt., 25c.

**2311. Pelargonium, Mixed.** (Lady Washington.) Saved from the finest fancy and spotted large-flowering sorts. Pkt., 50c.

**2312. Globe Amaranth. Gomphrena.** A dwarf hardy annual, with pretty clover-like heads of purple, white and red flowers, 12 inches. Flowers can be dried and used in Winter bouquets. Finest mixed, reddish-purple and white. Oz., 50c; pkt., 10c.

**2313. Gloxinia. Hybridia Grandiflora.** The Gloxinia is one of the most beautiful flowers, very few possessing the depth of color peculiar to this superb genus. An unsurpassed strain, containing the spotted Hybrids as well as the finest self-colored sorts. Pkt., 50c.

**2317. Gourds. Ornamental.** Mixed Varieties. Oz., 15c; pkt., 10c. See page 33.

**Helianthus. Sunflower.** Hardy annuals, of sturdy growth, remarkable for the size and brilliancy of the flowers. Very useful as cut flowers. Effective in forming background of large beds or borders and for distant effect.

**2325. Chrysanthemum Flowered.** Perfectly double; the color is the brightest golden yellow. The flowers are so perfect in form that they resemble very much double Chrysanthemum-flowered Asters with long stems; grows seven feet high and bears profusely all Summer long. Pkt., 5c.

**2326. Cucumerifolius. MINIATURE SUNFLOWER.** Single, rich golden yellow, with black center. An abundant bloomer, of branching habit, coming into flower in July and continuing until frost. 4 feet. Pkt., 5c.

**2324. Double California.** Handsome double flowers, dark yellow; 5 ft. Pkt., 10c.

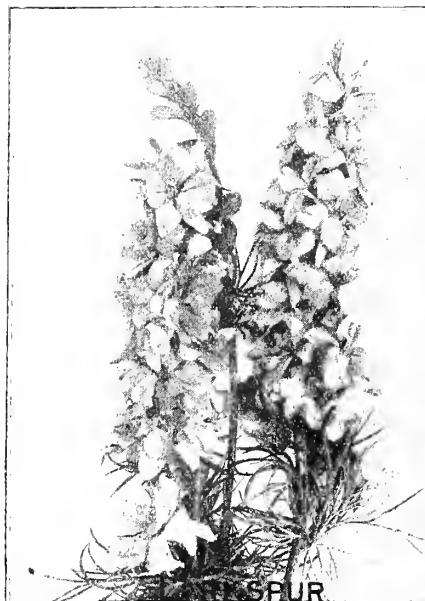
**2327. Giant Russian.** Immense single flowers, yellow with large black center. 6 feet. Pkt., 5c.

**2328. Orion.** Very effective sort, particularly on account of its twisted petals, which resemble a Cactus Dahlia. Pkt., 10c.

**2329. Perkeo.** This is a beautiful dwarf variety of the miniature Sunflower. The plants form compact bushes about 12 inches high and about 15 inches through. Very useful for the front of borders or beds of plants of medium height. Flowers continually from early July until cut down by killing frost. Single; charming golden yellow, with black center. Pkt., 10c.

**2330. Cut and Come Again Sunflowers; Single and Double in a beautiful mixture of all varieties.** You will be delighted with these, flowering as they do from June until killing frost. Indispensable as cut flowers and also very popular for garden decoration.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

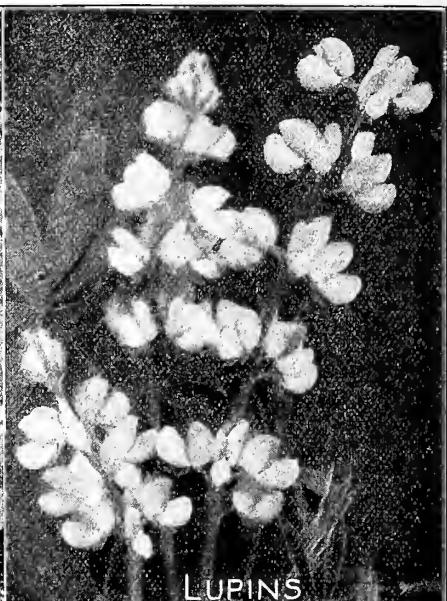
See page 77 for perennial Sunflowers.



SPUR



HELIOCROPSE



LUPINS

**Godetia.** An attractive, hardy annual deserving more extensive cultivation. The plants bloom profusely and bear showy, mallow-like flowers of rich and varied colors. One foot in height.

2314. Albemarle. Dark crimson. Pkt., 5c. 2318. Lady Satin Rose. Carmine. Pkt., 5c.  
2316. Duchess of Albany. Pure white. Pkt., 5c. 2315. All Colors, Mixed. Oz., 50c; pkt., 5c.  
2319. **Grasses. Ornamental.** For large beds or groups on lawns nothing gives a finer effect. Mixed. Pkt., 10c.

**Gypsophila. Bridal Veil. Baby's Breath.** Its graceful panicles of dainty blossoms and feathery foliage are unequaled for making up bouquets. Sow at intervals during the Summer. See page 75 for perennial variety.

2320. Elegans alba grandiflora. Pure white. Oz., 25c; pkt., 5c.  
2321. Elegans carmine. New shade. Pkt., 5c. 2323. Elegans rosea. Rose. Pkt., 5c.

**Helichrysum. Everlasting.** Large, double, daisy-like blooms, produced in shades of yellow and scarlet. Frequently dried and used for Winter bouquets. Flowers should be gathered when on the point of expanding. 2 to 2 1/2 ft.

2322. Giant Double Mixed. 1/4 oz., 25c; pkt., 10c.

**2323. Heliotrope.** Is a universal favorite on account of its delightful fragrance and long duration of bloom, flowering equally well as bedding plants in Summer or as pot plants in the house in the Winter. It is not generally known that Heliotrope may be raised from seed as easily as the Verbena. The best varieties in mixtures, 1/8 oz., 75c; pkt., 25c.

**Hollyhocks, Everblooming Annual.** A comparatively new class of easy culture and flowering as quickly from seed as any garden annual. The plants from early sown seed set out in May begin flowering in July; the May sown, in August; but in either event they flower profusely until frost. The plants are vigorous in growth and naturally branching in habit, and if given the best of treatment will thrive luxuriantly. The soil should be very rich, deeply dug, and during dry weather watered liberally. The diversity of forms and colors is delightful. There is a great variety of colors and color combinations in this strain, including maroon, pink, rose, crimson, white, cerise, scarlet and many variegations, of dainty and exquisite blending. See page 75.

2335. Double and Semi-Double Mixed. Pkt., 15c; 250 seeds, 50c.

2337. Single Mixed. Pkt., 15c; 250 seeds, 50c.

**2340. Humulus Japonicus. Japanese Hop.** One of the most rapid climbers grown; seed can be sown in the open ground in the Spring and it will attain enormous dimensions very quickly. The foliage is luxuriant, and it is one of the best plants for covering verandas and trellises. Heat, drought and insects do not trouble it. See illustration on page 65. 1/4 oz., 25c; pkt., 10c.

**2342. Hunnemannia.** Giant Yellow Tulip Poppy or Bush Eschscholtzia. Flowers are a rich shade of buttercup yellow, with feathery glaucous foliage. The best of the Poppy family for cut flowers, remaining in condition for several days. Seeds sown in May will produce flowering plants in July, which blossom continuously until hard frost. 1/4 oz., 25c; pkt., 10c.

**2343. Ice Plant.** Dwarf trailing annual, white flowers and thick, ornamental leaves which appear to be covered with crystals. Thrives in bright sunlight and dry situations. Pkt., 10c.

**Impatiens Holstii.** Charming plants for the decoration of the house or dinner table, producing bright, waxy flowers profusely and continuously.

**2345. Dwarf Vermilion Orange.** Dwarf compact growing variety of the attractive Impatiens Holstii. A very beautiful plant. It forms regularly branched bushes, from 6 to 8 inches in height by 10 to 12 inches in breadth, and produces its lovely, bright vermilion orange flowers in the greatest profusion throughout the season. Foliage and stem light green. Planted out of doors in half-shady situation or grown in pots, this dwarf variety will always be very effective and showy. Pkt., 25c.

**2347. Dwarf Deep Scarlet.** Another dwarf variety with dark foliage and stems; flowers about an inch across, of a beautiful deep scarlet. Equally as useful as the preceding sort. Pkt., 25c.

**2350. Kochia.** Summer Cypress or Mexican Fire Bush. An easily grown annual, which sown thinly in Spring soon forms a cypress-like hedge of lively green and of perfect symmetry; it attains a height of about 3 feet, and on the approach of Autumn the whole plant becomes a deep red; a splendid plant to divide the vegetable from the flower garden, or for forming a hedge for the Summer for any purpose. See page 65. 1/4 oz., 25c; pkt., 5c.

**2352. Lantana.** Well known bedding plants, with clusters of Verbena-like flowers, producing pink, yellow, orange and white heads in great abundance. They have an agreeable aromatic perfume. Mixed, 1/4 oz., 25c; pkt., 10c.

**Larkspurs.** This is one of the best known garden flowers. A vast improvement has been effected, by careful selection and attentive cultivation, in size and color of the blossoms and the general habit of the plant. Hardy annuals. (For Perennial Larkspurs see Delphinium, page 74.)

2353. Dark Blue ..... Pkt., 10c. 2355. Sky Blue ..... Pkt., 10c.

2354. Shell Pink ..... 10c. 2356. Pure White ..... " 10c.

2357. Finest Mixed. All colors ..... 1/4 oz., 20c; pkt. 10c.

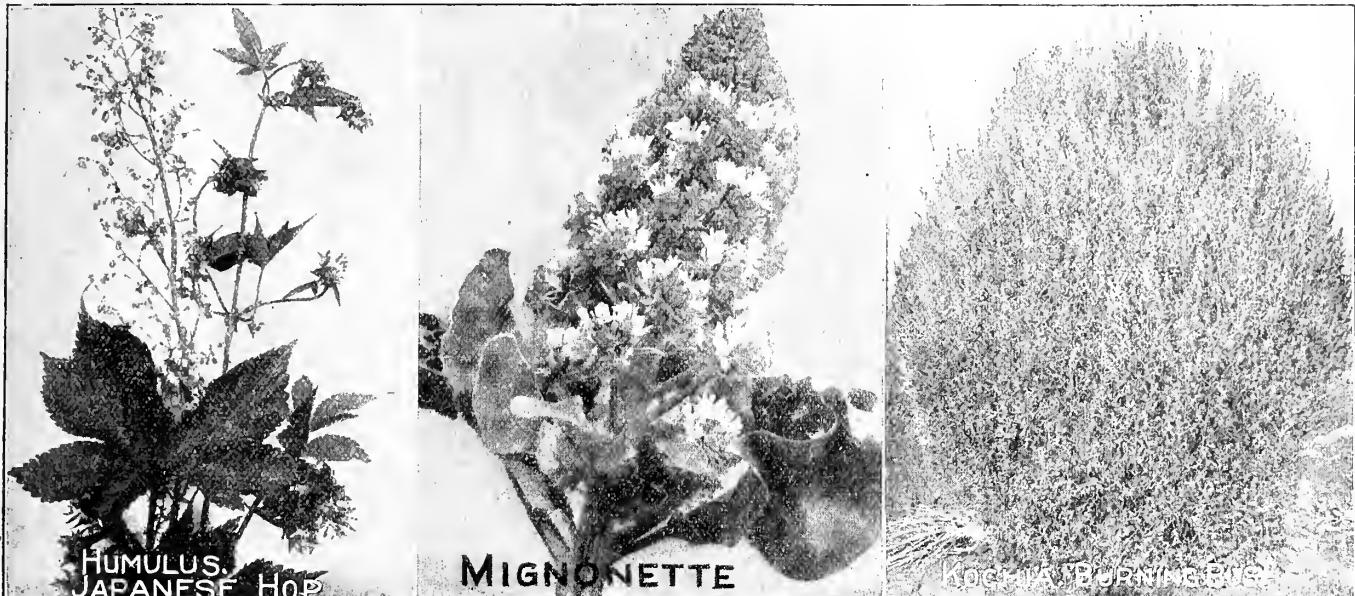
2358. Collection. Packet each of the four colors, 35c.



HUNNEMANIA



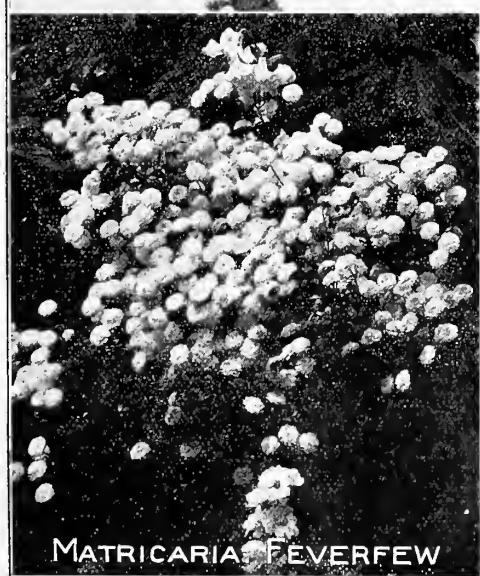
LAVATERA. ANNUAL MALLOW

HUMULUS.  
JAPANESE HOP

MIGNONETTE



AFRICAN MARIGOLD



MATRICARIA FEVERFEW

**Lavatera. Annual Mallow.** The soil should be well pulverized and the seed covered to a depth of about 4 times their size. 2359. *Trimestris grandiflora rosea*. A very beautiful and showy annual, growing about 2 feet high and covered during the entire Summer with large, cup-shaped, shrimp-pink flowers. Sow in May where they are to bloom and thin out to 12 inches apart.  $\frac{1}{4}$  oz., 25c; pkt., 5c.

**2360. Linum. Crimson Flax.** One of the most effective and showy bedding plants. Flowers brilliant scarlet. Oz., 25c; pkt., 5c.

**2362. Lupins. Annual Mixed.** Very desirable garden plants, showy and excellent for cutting. Graceful spikes, 2 feet long, in various shades of white, blue, pink and yellow. Oz., 40c; pkt., 5c. (See *Lupinus* or *Perennial Lupins* page 76.)

**2363. L. subcarnosus.** A fine border plant, producing handsome spikes of the deepest sea-blue flowers; delicately fragrant. Hardy annual. Pkt., 10c.

**Marigold.** Well known garden favorite of quick growth and very free-flowering habit. Seed should be sown in shallow drills in the open garden early in the Spring after danger of frost is over and the trees are well out in leaf. Plants for early blooming may be started in boxes, placed in a sunny window in March, and the young plants grown in pots until the weather is warm enough to set outdoors. See *Calendula*, page 60.

**2364. French Marigold.** These are dwarf, compact plants, very attractive, each being covered with hundreds of small bright flowers. Mixed—embraces all the best varieties, including Gold Striped, Legion of Honor, etc.  $\frac{1}{4}$  oz., 20c; pkt., 5c.

**2365. African Marigold.** Plants grow  $2\frac{1}{2}$  feet high and produce large double flowers  $2\frac{1}{2}$  to 3 inches in diameter in great profusion of glowing colors.

**2367. Mixed;** includes Eldorado, Gold Nugget, Lemon Queen, etc.  $\frac{1}{4}$  oz., 20c; pkt., 5c.

**2370. Marvel of Peru. Four O'Clocks.** A well known, handsome, free-flowering garden favorite; does well everywhere, fine mixed colors; 2 feet. Oz., 40c; pkt., 5c.

**2372. Matthiola Bicornis. Evening Scented Stock.** No annual in cultivation equals this in delicate perfume of its flowers. The pink and lilac blossoms partly close during the day but expand and impart their fragrance in the evening.  $\frac{1}{4}$  oz., 20c; pkt., 5c.

**Culture for Matthiola Bicornis.** Sow out of doors, when danger from frost is over, in the bed or border where they are to flower. The soil should be well pulverized and the seed covered to a depth of about 4 times their size. Press down firmly with a board, and thin out so that the plants will not become crowded. For early flowering sow in doors in a shallow box, or hot-bed, and transfer to the open ground when the weather becomes suitable.

**2374. Matricaria Eximia. Feverfew.** The plant is covered with numerous and freely branching flower stems which are literally covered with very double, pure white flowers, 1 inch in diameter. Pkt., 10c.

**2375. Maurandia.** Beautiful, rapid climber, blooming profusely until late in Autumn; also fine for conservatory; if desired for house, take up before frost. Half hardy perennial, flowering the first season if sown early; 10 ft. Mixed colors. Pkt., 10c.

**Mignonette. Reseda.** A well-known fragrant favorite; no garden is complete without a bed of Mignonette. Sowing made in April and again in July will keep up a succession from early Summer till frost.

**Culture.** Sow out of doors, when danger from frost is over, in the bed or border where they are to flower. The soil should be well pulverized and the seed covered to a depth of about 4 times their size. Press down firmly with a board, and thin out so that the plants will not become crowded. For early flowering they should be sown indoors in a shallow box, or in a hot-bed, and transferred to the open ground when the weather becomes suitable.

**2376. Sweet Scented Reseda Odorata.** The old-fashioned variety with small spikes, but the most sweetly scented of all. Oz., 20c; pkt., 5c.

**2377. Golden Machet.** Distinct variety of Machet, differing from the type by its massive spikes of golden yellow blossoms.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**2378. Mile's Hybrid Spiral.** Of strong branching habit, with spikes from 8 to 10 inches long; very fragrant. Oz., 35c; pkt., 5c.

**2379. Improved Red Victoria.** Fine spikes of brilliant red.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**2380. Large-Flowering Pyramidal.** Flowers large, of a reddish tint; a good variety for the open ground.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

**2381. Machet.** Adapted for pot culture; dwarf pyramidal growth, bearing numerous flower stalks; highly colored and very fragrant.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**2382. Parson's White.** Large spikes, pure white, very fragrant.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

**2383. Salmon Queen.** Strong, robust habit, with fine spikes, of bright salmon-red flowers, intensely fragrant; fine for outdoor culture.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**2384. Mimosa pudica. Sensitive Plant.** Curious and interesting, pinkish-white flowers; the leaves close and droop when shaken; 1 $\frac{1}{2}$  ft. Pkt., 10c.

**2385. Minneapolis Vine. Pilogyne Suavis.** We are glad to be able to offer this very beautiful climber, the seeds of which we have sold for years, to the delight of thousands who have bought them. The foliage is most elegantly cut and of shiny, dark green. Flowers are small, white and sweet-scented. It is of easy culture, rapid growth, and especially adapted for trellises. This is the most beautiful vine of which we know. Pkt., 15c.

**List of Annual Climbing Vines from Seed.** Balloon Vine, Canary Bird Vine, Cobaea Scandens, Coccinea, Cypress Vine, Dolichos, Gourds, Japanese Hop, Maurandia, Moonflower, Morning Glory, Nasturtium, Sweet Peas, Thunbergia.

**Morning Glory. Convolvulus.** One of the most free-flowering and rapid-growing climbers, thriving in almost any situation. The flowers are very delicate, brilliant and beautiful.

2387. Japanese Improved or Giant Mikado Morning Glory. The flowers are of gigantic size, and the colorings and markings beyond description, ranging from snow-white to black-purple, with all the possible intermediate shades. Others are edged with white, having throats of one of the above colors; there is also an endless number having flowers spotted, marbled, striped, flaked and splashed. They are beyond question the largest and most beautiful of this handsome family of easy grown climbers and are the Orient's best gift to flower lovers. Wherever climbers can be grown, our New Giant Mikado Strain should have a prominent place. The seed we offer is of our own importation direct from Japan, and embraces plain singles, (which are really the handsomest), semi-doubles, quilled and frilled, crimped and scalloped, and double. Oz., 25c; pkt., 10c.

2390. Tall Morning Glories Mixed. A great variety of colors of the old-fashioned, popular, rapid growing climber. Oz., 25c; pkt., 5c.

2391. Double Flowering Morning Glories. A very large percentage of the seedlings will produce double flowers. Oz., 50c; pkt., 10c.

2392. Dwarf Morning Glories Mixed. Hardy annual, 1 foot in height. Colors range from pure white to deep purple. Oz., 25c; pkt., 5c.

2393. Brazilian Morning Glory. The vine has large overlapping leaves 8 to 10 inches across, which make a dense shade. Very useful for covering porches or garden fences. Flowers, delicate reddish-purple with pink star in the center. Annual. Oz., 50c; pkt., 15c.

2395. Moonflower. Bears lovely white flowers 5 to 6 inches in diameter, with a fine painted star in the center. The flowers open at dusk, or earlier on cloudy days, at which time they are deliciously fragrant. Start the seed in the house and set out as early as safe in the Spring. Oz., 75c; pkt., 15c.

2396. Moonflower. Giant Pink. Pkt., 15c.

#### 2402. Nicotiana

**Affinis.** Tuberose-flowered Tobacco. Delightfully sweet-scented, pure white tubular flowers, blooming continually; annuals, 2 to 3 feet.  $\frac{1}{4}$  oz., 25c; pkt., 5c.

#### 2405. Nicotiana Sanderæ Hybrids.

A splendid type in a great diversity of color. All colors mixed; ptk., 25c.

#### 2407. Nigella Da-

**mascena.** Love in a Mist, or Devil in the Bush. A compact, free-flowering plant, with finely cut foliage, curious-looking flowers and seed pods; of easy culture, growing in any garden soil; hardy annual; blue and mixed; 1 foot. Oz., 30c; ptk., 5c.



MORNING GLORY



NIGELLA LOVE IN A MIST



NICOTIANA AFFINIS

#### 2404. Nicotiana

**Sanderæ.** Carmine Tuberose Flowered Tobacco. This beautiful hybrid Nicotiana has been spoken of as a most strikingly beautiful plant. The originators describe it as forming bushy, much-branched plants, 2 feet high, the whole plant laden with flowers from base to summit—literally ablaze with handsome carmine-red, fragrant blossoms, thousands of which are produced on a single plant. In form the flower resembles Nicotiana Affinis, but having a short, stout tube, and, unlike that variety, does not close up in daytime, but remains open all day; the fragrance, while not so powerful as Nicotiana Affinis, is decidedly delicious. It is as easy to grow as Petunia. If started indoors in early Spring and planted out in May it gives a continuous display of blooms all Summer and Autumn. It can also be sown in warm ground. Pkt., 20c.

#### 2409. Nemophila.

Splendid, free-flowering, hardy annuals, of very neat, compact habit. Flowers are cup-shaped, appearing in many brilliant colors, the blue shades being particularly striking.

Blossom continuously throughout the Summer, thriving best in a cool, or moist, shady place where the soil is not too rich. All colors mixed, with many shades of blue. Oz., 30c; ptk., 5c.

**Culture for Nemophila.** Sow out of doors, when the danger from frost is over, in the bed or border where they are to flower. The soil should be well pulverized and the seed covered to a depth of about four times their size. Press down firmly with a board and thin out so that the plants will not become crowded. For early flowering they should be sown indoors in a shallow box, or in a hot-bed, and transferred to the open ground, when the weather becomes suitable.

2410. **Oenothera. Evening Primrose.** Beautiful, low-growing plant, producing large, silvery-white, rose and yellow flowers. They thrive best in a sunny position, but succeed in almost any situation or soil. Annual varieties; all colors mixed. Pkt., 10c.

**Oxalis.** Beautiful small plants, suitable for the greenhouse, rock-work, or outdoor culture; flowering the first year; half hardy perennials; 9 inches.

2412. Alpha. White. Pkt., 10c.

2413. Rosæ. Rose-colored. Pkt., 10c.

2415. **Tropæoloides.** Excellent, dwarf bedding plant with dark brown foliage, forming a dense mat; flowers deep yellow but inconspicuous. Height 4 inches; ptk., 10c.

#### Worth Their Weight in Gold.

*I cannot praise your seeds too highly. They are the finest I ever used; worth their weight in gold.*

JOHN WEBER, N. Y.

#### N. K. & Co. Flower Seeds at your Dealer's or By Mail.

Varieties of N. K. & Co.'s flower seeds which are most in demand are on sale in the packet seed case shown on page 3 and displayed in the stores of over 18,000 dealers throughout the Northwest. Most of these dealers will be glad to order special varieties for you, but if your dealer will not get for you the Northrup, King & Co.'s flower seeds you desire, write directly to us.

## NASTURTIUM

## Northrup, King &amp; Co.'s Mixtures of Nasturtiums

For ease of culture, duration of bloom, brilliancy of coloring and general excellence nothing excels Nasturtiums. All they need is a moderately good soil in a well-drained, sunny position, and within a few weeks from the time they are sown until hard frost comes there is an endless profusion of their gorgeous blossoms. No annual will produce such a lavish profusion of flowers for so long a time, with the same small outlay of time and labor. The maximum of bloom is produced in light or sandy soils and seldom diminishes through the hot weather. The varieties offered below were selected from a very large number of sorts as the best and most distinct.



It is our intention that every package of seed, large or small, that bears the name of Sterling, shall be the best that money can procure anywhere at any price. Our mixtures of Dwarf and Tall Nasturtiums are shining examples of Sterling excellence as applied to flower seeds. These mixtures are made up by ourselves from the finest named varieties grown by the leading specialists of England, France, Italy, and America. They embrace every desirable color, such as deep brown, red, golden-orange, flaming scarlet, chrome-yellow veined with carmine, burnished bronze color, crimson-scarlet, sulphur-yellow, spotted deep chocolate, light straw, delicate shades of rose, and many other colors, tints, and markings.

Our Sterling Mixture of Tall Nasturtiums should not be confounded with the common type, as the varieties in this mixture are mostly of the rich and velvety Lobb varieties. In this mixture are also included all the choicest colors of the climbing varieties, including the new Madam Gunther Hybrids and Chameleon sorts. The color combinations in the flowers are superb, a wealth of rich maroon, crimson, scarlet, magenta, and claret shades, marbled and mottled, streaked, spotted and splashed with white, cream, pink, and rose. These climbing Nasturtiums are especially adapted for covering verandas, trellises, trees, stumps, etc.

2420. **Northrup, King & Co.'s Sterling Mixture of Dwarf Nasturtiums.** Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00.

2425. **Northrup, King & Co.'s Sterling Mixture of Tall or Climbing Nasturtiums.** Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00.

2430. **Dwarf Nasturtium, Choice Mixed.** Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50.

2440. **Tall or Climbing Nasturtium, Choice Mixed.** Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50.

## Nasturtium Novelties.

2545. **Tall Ivy-Leaved Mixture.** The plants are of running growth, with star-like pointed leaves of rich green, veined with white, so that the young shoots, where the leaves are set quite closely together, have a marked resemblance to the foliage of the hardy English Ivy. The flowers are of medium size and of most distinct form. The petals are quite narrow, and standing well apart present a striking star-like appearance. Pkt., 10c; oz., 25c.

2550. **Dwarf Ivy-Leaved Mixture.** A beautiful mixture, containing a remarkable range of color, including many not usually found in any other strain. Pkt., 10c; oz., 25c.

2520. **Dwarf Golden Foliage Mixture.** A charming novelty of unusual beauty, the contrast between the clear golden yellow foliage and the flowers being most remarkable. This mixture contains all colors. Pkt., 10c; oz., 25c.

2530. **Variegated Foliage Queen of Tom Thumbs Mixed.** The colors range from the deep crimson of parent to yellow, buff and spotted; of fine form and of the largest size. Very effective, forming a fine contrast to the silver variegated or cream and green colored leaves of the foliage. Useful for growing as single plants among other flowers, for edging walks, or surmounting walls. Very showy and a decided novelty of most surpassing beauty. Pkt., 10c; oz., 30c.

2542. **Variegated Foliage Tall or Trailing Queen Mixed.** A fine mixture of this charming new variety, containing all colors so far originated. The flowers are of many bright colors in pleasing contrast to the variegated blotched and spotted foliage. Pkt., 10c; oz., 30c.

**Dwarf Lilliput Nasturtiums.** A charming type of compact, dwarf growth. Very desirable for pot culture or for borders around beds. The color combinations are brilliant and beautiful. Our mixture contains many shades.

2552. **Lilliput Mixed.** Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00. **Culture.** Sow in-doors in early April, transplant to sunny border the end of May. If planted out-doors sow in early May. Light sandy loam suits them best. One oz. of seed sows a 15 foot row.

## Northrup, King &amp; Co.'s Named Varieties of Nasturtiums.

## Tom Thumb, Dwarf or Bedding

## Nasturtiums.

Price; any of the following varieties; pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 75c.

2450. **Bronze.**

2452. **Crystal Palace Gem.** Orange-yellow, garnet blotches.

2454. **Chameleon.** Various richly colored flowers on same plant.

2456. **Crimson.** Velvety crimson.

2458. **Cloth of Gold.** Yellow foliage, scarlet flowers.

2459. **Empress of India.** Crimson, dark foliage.

2460. **Golden King.** Golden - yellow, dark foliage.

2461. **Golden Queen.** Yellow foliage, golden flowers.

2462. **King of Tom Thumbs.** Scarlet, dark foliage.

2463. **King Theodore.** Crimson-maroon, dark foliage.

2464. **Pearl.** Creamy-white.

2465. **Prince Henry.** Pale yellow, carmine blotches.

2466. **Regelianum.** Deep purplish-crimson.

2467. **Rose.**

2468. **Spotted.** Golden-yellow, spotted garnet.

2469. **Scarlet Tom Thumb.** Dark foliage.

2470. **Vesuvius, or Salmon Queen.** Rich deep apricot.

2471. **Geranium Leaf.** Scarlet.

## Tall or Climbing Nasturtiums.

Elegant climbers for verandas, trellises, etc. Useful to cover unsightly railings and trails over rough ground with fine effect. Gather seed pods for pickling while green and tender. 6 to 10 feet.

Price; any of the following varieties:—pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c.

2473. **Chameleon.** Various richly colored flowers on the same plant.

2476. **Crimson.** Velvety crimson.

2479. **Fulgens.** Dazzling crimson, dark foliage.

2478. **Gold Garnet.** Orange-yellow, garnet blotches.

2480. **King Theodore.** Crimson-maroon, dark foliage.

2483. **Orange.** Pure orange.

2484. **Pearl.** Creamy-white.

2485. **Prince Henry.** Pale yellow, carmine blotches.

2486. **Rose.**

2487. **Scarlet.**

2490. **Vesuvius, or Salmon Queen.** Rich, deep apricot.

2491. **Ruby.**

2492. **Yellow.**

2493. **Ivy-leaved.** Tall mixed. Useful for hanging baskets and vases. A beautiful sort with deep green ivy-like foliage, forming a striking contrast to the crimson-scarlet flowers. Pkt., 10c; oz., 25c.

## Lobb's Climbing Nasturtiums.

Not be confounded with the common tall Nasturtiums, far surpassing them in the remarkable brilliancy of the flowers. These are much larger than those of the old-fashioned kind, and usually the petals overlap. Climbing Nasturtiums are adapted for verandas, trellises, etc.

2493. **Finest mixed colors.** Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00.

Price; any of the following varieties; pkt., 5c; oz., 25c.

2495. **Asa Gray.** Primrose yellow, almost white.

2496. **Atropurpureum.** Deep crimson.

2498. **Brilliant.** Dark scarlet.

2500. **Crown Prince of Prussia.** Deep blood-red.

2502. **Giant of Battles.** Sulphur, blotched-red.

2504. **Ivy-leaved.** Fine deep blue-green, ivy-like foliage, dark blood-red fringed flowers.

2506. **Lilac.** Odd shade of brownish-lilac.

2508. **Princess Victoria Louise.** Creamy-white, with conspicuous orange-scarlet blotches.

2509. **Regina.** Brilliant salmon-red on opening, changing as they age to almost a cream color.

2510. **Roi Des Noirs.** (King of the Blacks)

Deep velvety garnet; very rich.

2511. **Spitfire.** Brilliant scarlet.

# NORTHRUP, KING & CO.'S PANSIES IN MIXTURES.

## 2615. Northrup, King & Co.'s Sterling Mix-

**ture.** A mixture of Pansies, unrivaled for diversity of coloring and marking. This mixture is made up from over 100 of the finest named varieties grown by Pansy specialists of the Old and New World. In making up this mixture, expense is not regarded. Our aim is to possess the finest mixture of Pansies obtainable. We have never seen its equal. The diversity of coloring and marking is almost beyond belief. We will cheerfully return money paid for this mixture to anyone who says it is not the finest he ever saw. Pkt., 50c; 1000 seeds, 75c.

## 2618. Northrup, King & Co.'s Bedding Mixed.

Composed of many standard sorts; admirably suited for beds or borders, strong growing plants, very free-blooming. Pkt., 10c;  $\frac{1}{4}$  oz., 50c.

## 2619. Bugnot's Superb Blotched.

Extra large flowers, charming brown-red and bronze shades. Pkt., 35c.



## 2617. Northrup, King & Co.'s Giant Fancy.

While all the Pansies in our Sterling Mixture are large, we do not include in its make-up many of the giant sorts, for, as a rule, many of our customers prefer to buy them separately. Great improvement has taken place within the last two or three years, however, in the character of the largest Pansies. Our Giant Fancy is the finest mixture of the large varieties. For this is used only the seed from the very choicest blossoms. It includes many of the newest production of famous growers. Pkt., 35c;  $\frac{1}{4}$  oz., 75c.

### 2620. Cassier's Three and Five Blotched Giants.

Mostly delicate light shades with dark blotches. Pkt., 35c.

### 2621. Cassier's Five Blotched Giants.

Magnificent mixture. Pkt., 35c.

### 2622. Large Stained Parisian.

White or yellow shades with five striking blotches, very fragrant. Pkt., 35c.

### 2623. Masterpiece.

A remarkable type, the border of each petal being much curled or ruffled, so the flower appears to be double. Pkt., 35c.

### 2624. Orchid Flowered Mixture.

A new race showing beautiful tints of cream, pale mauve, blush, rose, primrose, with brown or golden yellow blotches which diffuse into rays or veins near the edge. The upper petals are plaited, resembling Orchids. Pkt., 35c.

### 2625. Odier's Five Blotched.

Seed gathered only from especially selected, show plants. Extra large yellow and white flowers. Pkt., 35c.

## Giant Flowering Pansies.

	Pkt.
2587. All colors mixed.....	10c.
2580. Adonis. Light blue with a white center.....	10c.
2582. Auriculaeflora. Superb mixed metallic shades.....	10c.
2583. Canary Yellow. Dark eye. Large beautiful yellow with three black blotches on frilled petals.....	15c.
2584. Cardinal. Of all so-called scarlets this is the nearest to a bright red.....	10c.
2585. Comet. White porcelain with fine blue or violet stripes on lower petals.....	10c.
2587. Emperor William. Ultramarine blue with large blotches of violet.....	15c.
2588. Emperor Frederick. Deep purple with golden bronze centre, edged scarlet and yellow.....	15c.
2589. Eros. Velvety chestnut, with broad golden border.....	10c.
2591. Faust or King of the Blacks. Darkest Pansy known, almost black.....	10c.
2592. Fire King. Upper petals bright reddish brown, on lower ones a dark blotch with yellow margin.....	10c.
2593. Freya. Deep purple, edged with silver. 10c.	10c.
2595. Golden Five Spotted. Strikingly handsome.....	15c.
2596. Golden Yellow. Dark eye.....	10c.
2597. Hortensia-Red. Beautiful light rose. 10c.	10c.
2598. Light Blue. Azure blue with dark eye. 10c.	10c.
2599. Lord Beaconsfield. Deep purple violet, shading to white on upper petals. 15c.	15c.
2601. Mme. Perret. Various shades of pink and rose. Very free flowering, extra large.....	10c.
2603. Peacock. Upper petals steel blue, remainder are deep claret with white margins. Very striking.....	15c.
2604. Pres. Carnot. Pure white with five deep violet blotches.....	10c.
2605. Pretiosa. Purple blotch on crimson background, pure white edge. Large flowered, curled.....	10c.
2608. Snow Queen. Large satiny white, light yellow center.....	10c.
2609. Striped. Mahogany with white stripes.....	10c.
2610. Victoria. Claret red, nearly a blood-red.....	10c.
2614. Vulcan. Magnificent deep red, with five very large black spots on frilled petals.....	10c.

2612. White with Eye. Large blossom with purple eye..... 10c.  
Collection. Giant Flowering Pansies. 12 distinct varieties, \$1.00 postpaid.

## Pansy Culture.

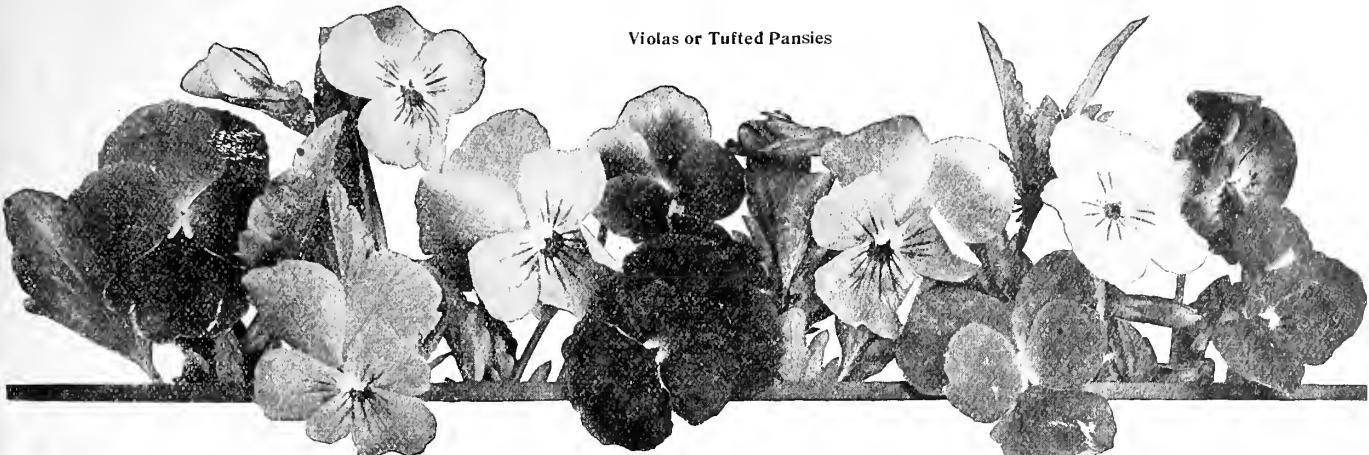
For Spring plants the seed may be sown broadcast from July to September. Cover the seed very lightly with fine soil and press in with a board; then mulch the seed bed with long, loose, strawy manure, to a depth of 3 or 4 inches. The seed will be up in about 10 to 15 days; then remove the straw a little at a time. Transplant the seedlings to beds or frames in September or October and after a sharp frost, late in November or early December, provide a light or loose mulch of hay, straw or litter. The seed may also be sown indoors in January or February; or in Spring in the open ground, in a shady, cool spot where the plant can be protected from the strong mid-day sun. The soil should be very rich and liberal applications of bone meal should be given from time to time.

Hot-beds will be found exceedingly useful for raising Pansies. In case the plants have not been wintered over, the seed may be sown in March, following the directions given above except that the straw mulch may be omitted. In about five or six weeks from the time of sowing, the young plants should be transplanted in the beds so they will be two or three inches apart each way, and later they can be set out in the garden. These beds are also very convenient for wintering over the young plants that are started in the late Summer, as indicated above.

Pansies usually commence to flower in from seventy to eighty days from the time of sowing, under reasonably favorable conditions. They are natives of Western Europe where the climate does not have such extremes of temperature as ours. Consequently they do best in cool growing weather such as usually occurs in the Spring or late Summer and Fall.

All flower and vegetable seeds are sent prepaid except where otherwise noted.

Violas or Tufted Pansies



## Violas or Tufted Pansies

Violas are not yet fully appreciated, however nobody needs to see them more than once to realize how much they add to a garden. A border of these plants at Como Park, St. Paul, delighted thousands of visitors.

They are a remarkably free-blooming, hardy annual, especially adapted to shady places. The flowers are not so large as the other varieties of Pansies offered on page 68, but they blossom much more freely. Where mere color effect is wanted they are superior to Pansies. Used in masses or as border plants they are fine for edging walks or beds of taller blossoms.

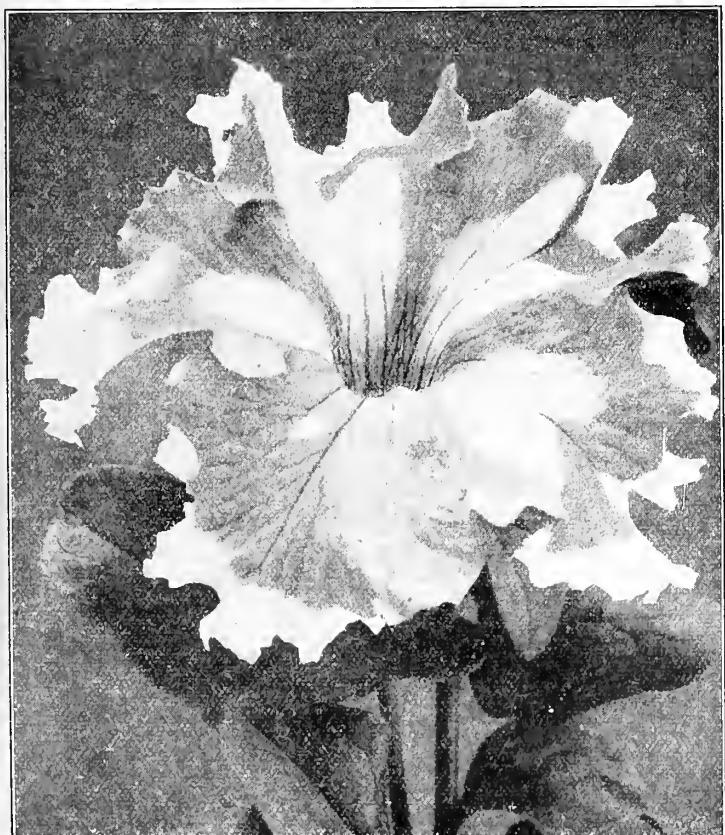
Seeds sown in March or early April produce flowering plants in June, which are a mass of bloom from then until frost.

2630. Finest Mixed Colors.....	1/4 oz., 60c; pkt., 10c.
2631. Blue Perfection. Deep purplish blue.....	Pkt., 10c.
2632. White Perfection. Pure white.....	Pkt., 10c.
2633. Mauve Queen. Lilac-blue.....	Pkt., 10c.
2634. Firmament. Sky blue.....	Pkt., 10c.
2635. Thuringia. Charming variety. Dark violet blue, white eye. Pkt., 15c.	
2636. Purple Queen. Rich purple.....	Pkt., 10c.

### Viola odorata. Sweet Scented Violet.

The deliciously fragrant, old-fashioned bouquet flower. It was popular in our Grandmothers' day and is still a favorite everywhere; a splendid hardy perennial. Violets are easily grown from seed, doing best in a cool, moist, partially shaded situation. The seeds being hard shelled often take several weeks to come up. Any of the following, 10c per packet.

2626. Blue. 2628. White. 2629. Mixed, blue and white.



Northrup, King &amp; Co.'s Extra Large Flowering Petunia.

## PETUNIA

The Petunia is peerless among annuals for effective Summer bedding or window boxes. It is of easy culture, early to blossom and continues all the Summer until frost. No other flower produces a greater diversity of color, or retains its freshness for so long a period. The doubles may be perpetuated, by cuttings in late Summer, for Winter house plants. Provide good soil and a sunny location. We have prepared these mixtures with the greatest care, and know that they are especially fine.

### 2555. Northrup, King & Co.'s Extra Large Flowering Petunias.

Mixed. This mixture embodies all of the latest varieties, and will prove an agreeable surprise even to those who expect much. All odd and notable kinds, black, crimson, white with yellow throats, marbled, veined, striped, variegated, etc. Pkt., 25c.

### 2562. Fine Mixed.

Excellent for bedding; many splendid colors. 1/4 oz., 25c; pkt., 10c.

### 2565. Striped and Blotched.

An excellent strain of the small-flowering type. Fine for massing. All colors. 1/4 oz., 25c; pkt., 10c.

**2570. Giants of California.** The "Giants of California" bear gigantic flowers often five or more inches in diameter, of an astonishing variety of colors. They embrace every conceivable shade of crimson, pink, lavender, yellow, black, pure white, etc. One of the chief points of excellence is the deep throat and diversity of veining in the throat. Many of the flowers have a clear yellow throat, while others have a pure velvety black one, so deep that it seems to show no veining; many are deeply lined and netted on a white, pink or lavender ground. Many flowers are beautifully ruffled and frilled. Our strain is unexcelled, being saved especially for our critical trade by a leading Petunia specialist. Pkt., 50c.

**2572. Rosy Morn.** Of compact growth covered completely with beautiful flowers one and one-half inches in diameter. The throat is silvery white, while the edge is heavily flushed with soft rosy pink. Very desirable for beds or borders. Pkt., 15c.

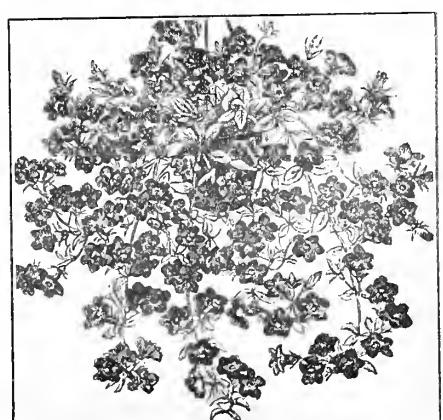
**2573. Trailing Petunia.** A small, but very profuse-flowering Petunia, producing 2 1/2 to 3 foot branches thickly set with fragrant flowers, 1 inch across. These are a fine shade of carmine with reddish violet throat. Especially beautiful in window boxes or hanging baskets. See illustration. Pkt., 25c.

**2574. Dwarf Inimitable.** "Star Petunia," compact-growing variety; flowers are cherry red with white center. Very effective in masses. Pkt., 10c;

**2575. Bedding Petunias.** A superb strain of elegant, large flowers remarkable for their brilliancy and variety of color. Splendid for bedding. 1/4 oz., 25c; pkt., 10c.

**Culture.** Sow in May when the ground is warm, in the bed or border where they are to flower. The soil should be well pulverized and the seeds covered to a depth of 4 times their size. Firm with a board, and thin out so that the plants will not become crowded. For early flowering sow indoors in a shallow box, or in a hotbed, and transfer to open ground when the weather becomes suitable.

The weaker Petunia seedlings should be carefully saved. With attention these small seedlings develop splendidly and frequently produce the finest double flowers.



Trailing Petunia.

**2637. Phacelia Campanularia.** One of the earliest annuals to blossom; height nine inches; flowers bell-shaped and of a rich deep blue. The showiest annual we have. Pkt., 10c.

**Phlox Drummondii.** Of all Summer-flowering annuals the varieties of Phlox Drummondii are unquestionably some of the most brilliant and satisfactory. Seed may be sown in the open ground any time after danger of frost is past, and in a few weeks the beds or borders are aglow with their brilliant coloring and remain so until cut down by frost. For early flowering they should be started indoors or in a hotbed.

2640. Mixed Colors.  $\frac{1}{4}$  oz., 25c; pkt., 5c.

**Grandiflora Varieties. Large Flowering.** The following six colors are considered the brightest, best and most distinct for bedding:

2642. Pure White ..... Pkt., 10c 2645. Crimson Beauty... Pkt., 10c  
2643. Shell Pink ..... " 10c 2646. Royal Purple..... " 10c  
2644. Deep Rose ..... " 10c 2647. Blood Red ..... " 10c

2648. Grandiflora, Choicest Mixed.  $\frac{1}{4}$  oz., 35c; pkt., 10c.

2650. Large Flowering Dwarf Varieties. A type combining the size of the individual flower and the head of the finest Grandiflora with the compact growth of the dwarf sorts. Finest mixed colors.  $\frac{1}{4}$  oz., 50c; pkt., 10c.

2655. **Star Phlox.** (Star of Quedlinburg.) Of dwarf habit with very pretty star-shaped flowers. Mixed colors.  $\frac{1}{4}$  oz., 50c; pkt., 10c.

**2665. Physalis Franchetti.** Japanese Winter Cherry. Fruit large, deep red in color, edible, and enclosed in balloon-shaped husks of brilliant orange red. Hardy annual, height two feet. An ornamental variety of the Ground Cherry or Strawberry Tomato. Pkt., 10c.

**Portulaca.** Will grow and bloom abundantly all Summer in a dry, hot location, where most other plants would soon die. The flowers are of the richest colors and make a beautiful border.

**2668. Parana.** This new giant-flowered type from South America produces immense, single blossoms often 3 inches across, bright ruby red in color. They are of very vigorous growth and flower profusely. Pkt., 10c.

2670. **Single.** Mixed Colors.  $\frac{1}{4}$  oz., 25c; pkt., 5c.

2675. **Double.** Mixed Colors.  $\frac{1}{4}$  oz., \$1.00; pkt., 15c.

## POPPIES

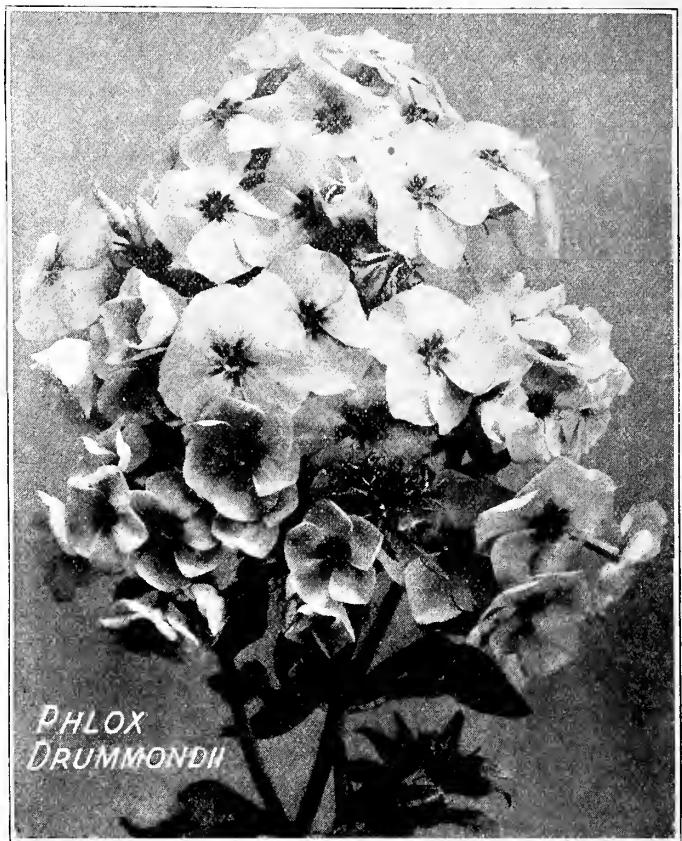
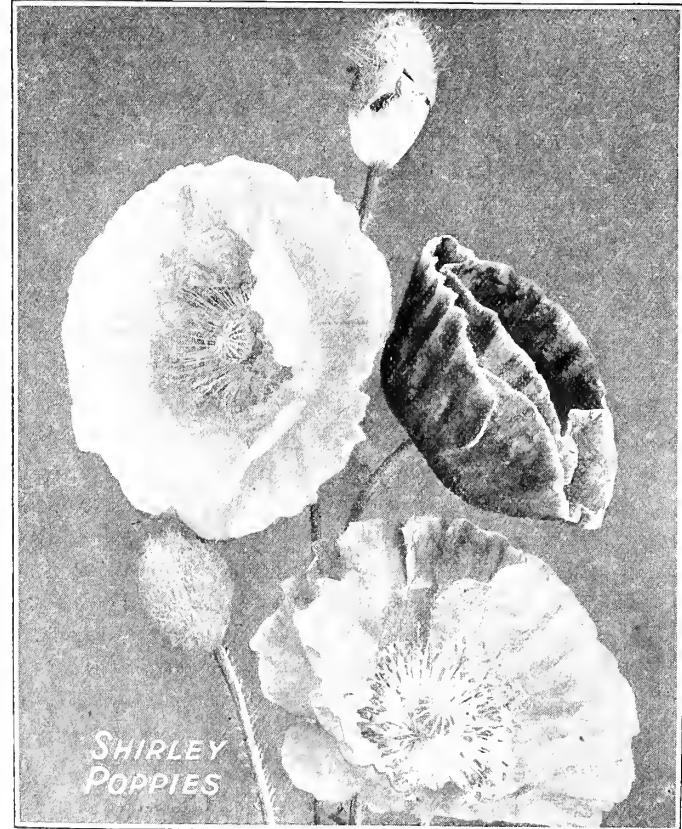
In color and form, Shirley Poppies are the daintiest, most exquisite blossoms imaginable. Poised on long stems like graceful birds they appear to be hovering but a moment before darting away. Their silken gossamer petals vary in shade from scarlet and maroon to pale rose and white.

The blossoming period lasts but a few weeks, which necessitates repeated sowings at intervals for constant bloom. Sow as early in the Spring as possible where the plants are to remain, as they do not bear transplanting. When planted with Bachelor's Buttons they make a charming combination bed. As cut flowers they are short lived but if their stems be dipped in boiling water right after gathering, they will last much longer.

### Single Annual Poppies.

**2680. Northrup, King & Co.'s Sterling Single Mixture.** Embraces all the leading best single varieties. As is always the case with our Sterling Mixture, it has been our aim to include in this mixture every good variety. Oz., 35c; pkt., 10c.

**2685. Poppy, Shirley.** The flowers are large, exceedingly graceful and elegant; the colors are pure, soft and varied and range from blushing white, rose, delicate pink and carmine, through innumerable tints, to bright sparkling crimson. Oz., 50c; pkt., 10c.



**2687. Danebrog, or Danish Cross.** Very showy variety, producing large single flowers of brilliant scarlet, with a silvery-white spot on each petal, thus forming a white cross. Oz., 25c; pkt., 5c.

**2690. Umbrosum.** Richest vermillion, with a deep, shining black spot on each petal. Oz., 25c; pkt., 5c.

**2692. English Scarlet.** The common field poppy of Great Britain; dazzling scarlet. Oz., 25c; pkt., 5c.

**2694. Flag of Truce.** Satiny-white flowers 3 to 4 inches across. Oz., 25c; pkt., 5c.

**2696. Tulip Poppy.** A magnificent species from Armenia. The plants grow about 14 inches high and produce from 50 to 60 large tulip-like flowers of dazzling scarlet.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**2698. Fire Dragon.** Very showy and free-flowering, producing flowers of brilliant deep scarlet with black spots, margined white. 2 to 2 1/2 feet. Oz., 50c; pkt., 10c.

**2700. Single Mixed.** Annual sorts. Oz., 20c; pkt., 5c.

### Double Annual Poppies.

Beautiful fringed blossoms on strong, vigorous stems. Double Poppies make splendid cut-flowers. Striped, tinted and shaded, they resemble big lacey rosettes.

The flowering period of Double Poppies is very much longer than that of the Single Shirley's and the plants need more space to develop to perfection.

**2705. Northrup, King & Co.'s Sterling Double Mixture.**

Includes all of the best double varieties of large-flowering Poppies of all colors; also many varied tints and combinations of color. Many of the blossoms are 6 to 7 inches in diameter and as double as Peonies, 30 to 36 inches high. They are fine for cut-flowers or garden display. Oz., 35c; pkt., 10c.

**2707. American Flag.** Beautiful variety; flowers very large and double, snow white, bordered with scarlet. Oz., 25c; pkt., 5c.

**2710. Fairy Blush.** Very double flowers of pure white, elegantly fringed and tipped with rose. Oz., 25c; pkt., 5c.

**2712. White Swan.** Immense double flowers; beautifully fringed and of pure white. Oz., 25c; pkt., 5c.

**2714. "Mikado" (The Striped Japanese Poppy.)** This beautiful Poppy is very distinct in character and color. The flowers are brilliant scarlet and white with elegantly curved petals, like a Japanese Chrysanthemum. Oz., 25c; pkt., 5c.

**2716. The Golden Poppy.** A novel variety, with golden-yellow foliage and double flowers in various red shades; 1 ft. Pkt., 15c.

**2718. Carnation Flowered.** Splendid, double, fringed flowers. Mixed colors. Oz., 25c; pkt., 5c.

**2720. Peony Flowered.** Large, showy, double, globular flowers, resembling a double Peony. Mixed colors. Oz., 25c; pkt., 5c.

**2722. Scarlet Featherball.** Very beautiful with fringed-edged petals like big balls of slashed tissue paper or feathers. Double, brilliant red flowers. Pkt., 10c.

**Perennial Poppies.** See page 76.

**California Poppy or Eschscholtzia.** See page 63.

All Flower seeds are sent prepaid.



**Stocks. Gilliflower.** This Stock is one of the most popular annuals, either for bedding or pot culture; for brilliancy and diversity of color, fragrance, profusion and duration of bloom it is unsurpassed. Start the seeds in February and March, and as soon as the plants have their second pair of leaves, prick out into shallow boxes and in about four weeks the plants will be ready to pot, from which they should be transferred to the open ground in May or June.

**Large Flowering Ten-Weeks Stock.** This is the leading class for bedding out or Summer blooming.

2755. Blood Red .....	Pkt., 10c
2760. Bright Pink .....	Pkt., 10c
2765. Purple .....	Pkt., 10c
2770. Pure White .....	Pkt., 10c
2775. Light Blue .....	Pkt., 10c
2780. Canary Yellow .....	Pkt., 10c
2785. Mixed Colors .....	1/4 oz., 50c; pkt., 5c
2790. Collection, 6 separate colors, one packet of each for .....	50c

#### 2795. **Thunbergia. Black Eyed Susan.**

Beautiful, rapid-growing annual climber, preferring a warm, sunny situation; used extensively in hanging baskets, vases, low fences, etc., very pretty flowers in buff, white, orange, etc., with dark eyes, mixed colors; 4 feet. 1/4 oz., 25c; pkt., 5c.

By sowing seed in the hotbed in March or April it is possible to raise strong plants for bedding in May. This method is strongly recommended for Asters, Antirrhinum, Balsam, Candytuft, Castor Oil Bean, Dusty Miller, Heliotrope, Lobelia, Petunias, Salvia, Verbenas and Vincas.

2723. **Pyrethrum Aureum. Golden Feather.** Very popular plant for edging, carpet-bedding, etc. Pkt., 10c.

**Ricinus. Castor Oil Bean.** Ornamental plants of stately growth and picturesque foliage, with brilliant colored fruit, producing a sub-tropical effect; fine for lawns, massing or center plants for beds.

**Culture.** Sow out of doors, when danger from frost is over, in the bed or border where they are to flower. The soil should be well pulverized and the seed covered to a depth of about four times their size. Press down firmly with a board, and thin out so that the plants will not become crowded. For early flowering they should be started indoors in a shallow box, or in a hotbed.

2725. **Borboniensis.** Very large and beautiful, green foliage; 15 ft. Oz., 20c; pkt., 5c.

2726. **Gibsoni.** Dwarf branching habit, deep red foliage; 5 feet. Oz., 20c; pkt., 5c.

2728. **Cambodgensis.** The main stem and leaf stalks are shining ebony, leaves large, regularly divided and richly colored; 5 feet. Oz., 25c; pkt., 5c.

2729. **Zanzibariensis.** Have light and dark green leaves and some of coppery bronze changing to dark green with reddish ribs. Oz., 25c; pkt., 5c.

2730. **Mixed.** All sorts, best varieties. Oz., 20c; pkt., 5c.

**Salpiglossis. Painted Tongue.** Very beautiful hardy annual plants, flowering freely from July to early Autumn. Rich soil should be provided, with plenty of space for plants to develop.

2732. **Large Flowering Mixed.** The exquisite beauty of the flowers, with their rare combination of color, is a revelation to all who may see them for the first time. A splendid variety of color, flowers of large size. 1/4 oz., 35c; pkt., 10c.

2735. **Emperor.** This new variety forms only one leading stem, and bears on its summit a veritable bouquet of the most beautiful flowers, each one richly veined with gold, and much larger than the finest of the "Grandiflora" type. 1/4 oz., 50c; pkt., 10c.

**Salvia. Scarlet Sage.** One of the handsomest flowering plants we have for garden decoration. For early flowering, plants should be started indoors in a shallow box, or in a hotbed.

2740. **Salvia Splendens.** Excellent for filling large beds or borders in the garden; continuously in bloom from early August until the first killing frost. Beautiful scarlet; large flowering, 2 1/2 ft. high. 1/4 oz., 50c; pkt., 10c.

2745. **Clara Bedman. (Bonfire.)** The plants form handsome, globular bushes about two feet in diameter. The dazzling scarlet spikes grow upright and stand clear above the foliage, enveloping the plant. 1/4 oz., 75c; pkt., 10c.

2748. **Ostrich Plume.** Splendid new variety. It resembles Salvia Splendens in shape, but is covered with gorgeous plumes, each of which is a bouquet in itself. Color is brightest scarlet. Pkt., 25c.

2750. **Scabiosa. Mourning Bride.** One of our handsomest summer border plants, producing in great profusion very double flowers in a variety of shades and colors. Excellent subjects for cut flowers, lasting nearly a week after being cut. Sow the seeds in May and thin out the young plants to 6 inches apart. Mixed, oz., 50c; 1/4 oz., 20c; pkt., 5c.



Ricinus. Castor Oil Bean

## VERBENA

**Culture.** Should not be sown in the open ground before latter part of May. The best plan is to start the seeds indoors in a shallow box or in a hotbed, in a temperature of about 65 degrees. Cover the seeds to a depth four times their size and press the surface firm with a board. Water with a fine spray. Transplant the seedlings after the second leaves form and remove to the garden when the weather is warm and settled.

**Northrup, King & Co.'s Mammoth Verbena.** The largest known, a single flower often being as large as a twenty-five cent piece. The beauty of this plant is well known and scarcely needs comment. For garden beds or effective massing the Verbena is unequalled. They bloom profusely the first year from seed, the flowers lasting until late in the Autumn. Thrive best in a sweet turf loam and should be given space to trail over the ground. Verbenas should not be grown in the same place two years in succession.

2798. **Northrup, King & Co.'s Mammoth Mixed.** All colors.  $\frac{1}{4}$  oz., 50c; pkt., 10c.  
 2800. **Mammoth Aurora Borealis.** Intense carmine-scarlet. Pkt., 25c.  
 2802. **Mammoth Pink** ..... Pkt., 10c 2811. **Mammoth Scarlet** ..... Pkt., 10c  
 2804. **Mammoth Purple** ..... " 10c 2812. **Mammoth Striped** ..... " 10c  
 2806. **Mammoth White** ..... " 10c 2814. **Collection of Mammoth Verbenas,**  
 2807. **Mammoth Blue** ..... " 10c 6 colors ..... for 50c  
 2808. **Mammoth Yellow** ..... " 10c  
 2809. **Mammoth Auricula Eyed** ..... " 10c 2815. **Verbena Fine Mixed.** All colors of the  
 2810. **Mammoth Blue, White Eye** ..... " 10c older sorts,  $\frac{1}{4}$  oz., 25c; pkt., 5c.  
**Verbena Venosa.** A strong grower, violet flowers. An excellent subject for massing; used very effectively in Loring and other parks in Minneapolis; flowers all Summer ..... Pkt., 10c  
**2816. Verbena, Lemon Scented.** This fragrant plant is easily grown from seed and succeeds well anywhere. Have a good bed of it so that you can cut its fragrant foliage and flowers to make up with bouquets. Pkt., 5c.

**VINCA. Madagascar Periwinkle, or Old Maid.**

Ornamental free-blooming plants; splendid for bedding; dark, glossy foliage and handsome pink and white flowers. It is best to start seed early indoors or in a hotbed. Seed germinates slowly. Plants can be potted in the Autumn and kept in bloom all Winter.

2830. **Alba. Pure white** ..... Pkt., 10c 2831. **Rosea. Rose, dark eye** ..... Pkt., 10c  
 2832. **Mixed, all colors** .....  $\frac{1}{4}$  oz., 35c; pkt., 10c

**ZINNIA. Youth and Old Age.**

One of the most brilliant and showy of annuals, which has long been a general favorite. They come in flower early in the Summer and keep on blooming until hard frost; require little attention and succeed almost anywhere. For perfection of blossom start the seeds in March and prick out once or twice before transferring to the open border in May or June. Provide the plants with plenty of room, at least 18 inches apart each way, and they soon completely cover the ground.

**Culture.** Should not be sown in the open ground before latter part of May. The best plan is to start the seeds indoors in a shallow box or in a hotbed, in a temperature of about 65 degrees. Cover the seeds to a depth of four times their size and press the surface firm with a board. Water with a fine spray. Transplant the seedlings after the second leaves form and remove to the garden when the weather is warm and settled.

**Northrup, King & Co.'s Double Improved Large Flowering.**

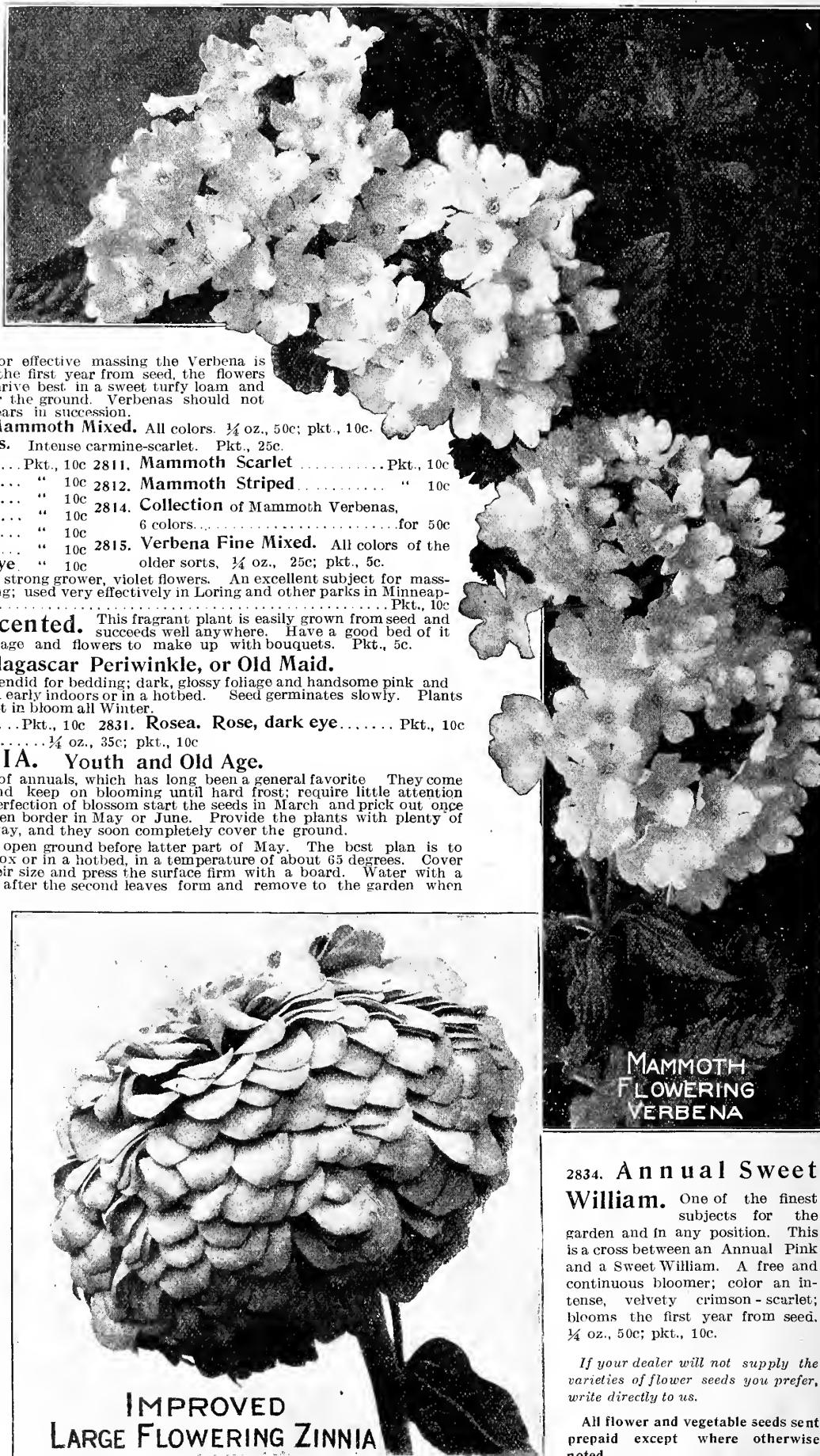
**This is considered the best type for general use; forming bushy compact plants not over 2 feet high and bearing flowers as large as the tallest varieties.** In our special imported strains of Double Zinnias are found the most perfect and beautiful types which have yet been produced by the flower specialists of Europe and America. We are confident that they will please all who grow them.

Pkt.

2817. **Double White** ..... 5c  
 2818. **Double Orange** ..... 5c  
 2819. **Double Salmon Rose** 5c  
 2820. **Double Scarlet** ..... 5c  
 2822. **Double Canary** ..... 5c  
 2824. **Double Jacqueminot** 5c  
 2826. **Collection. 6 separate colors for** ..... 25c  
 2828. **Double Mixed, all colors.**  $\frac{1}{4}$  oz., 20c; pkt., 5c.

**Zinnia.** In separate colors,  $\frac{1}{4}$  oz., 25c.

Select your flower seeds from N. K. & Co.'s Sterling Seed Case at your dealer's.



**IMPROVED  
LARGE FLOWERING ZINNIA**

**MAMMOTH  
FLOWERING  
VERBENA**

**2834. Annual Sweet William.** One of the finest subjects for the garden and in any position. This is a cross between an Annual Pink and a Sweet William. A free and continuous bloomer; color an intense, velvety crimson-scarlet; blooms the first year from seed.  $\frac{1}{4}$  oz., 50c; pkt., 10c.

*If your dealer will not supply the varieties of flower seeds you prefer, write directly to us.*

All flower and vegetable seeds sent prepaid except where otherwise noted.



AQUILEGIA COLUMBINE



ACHILLEA



CAMPANULA PERSICIFOLIA



BELLIS. ENGLISH DAISY



CANTERBURY BELLS

## HARDY PERENNIAL FLOWER SEEDS

**Culture.** Everyone likes perennials because they are permanent—once established they increase in size and beauty. Many sorts are raised from seed, usually blooming the year after sowing. The seed bed must be well drained, fine and firm. If the soil is at all heavy cover with one inch of sand. The seed may be planted from June 10th to early July. After soaking the seed 24 hours, sow the fine sorts in rows, 3 inches apart, on the surface of sand or well sifted soil, and press down with a board. Large seeds may be covered to twice their thickness. The bed must be kept shaded constantly with a screen made as follows: nail common laths 2 inches apart on end strips. Place this screen over the bed on 4 bricks set endwise. Water as required; when seedlings have two pairs of leaves, transplant into rows a few inches apart each way, and later when they begin to crowd transplant a second time. This involves extra work but is necessary to raise sturdy plants. Keep them shaded with the screen all Summer. In September, if well developed, they may be placed in their permanent locations where they are to blossom the following year, or left in the seed beds for early Spring transplanting. After the ground freezes hard, cover with evergreen or other branches and a few inches of straw or leaves loosely piled on top. In late March, remove one-half the top mulch and loosen up the rest, to admit air. Take off the remainder gradually, as the season advances.

3200. **Abronia. Sand Verbena.** Trailing plants and sweet scented, rosy-lilac flowers borne in clusters. Suited for rockeries. Pkt., 10c.

3202. **Achillea. Double White Yarrow.** One of the best hardy white perennials. Grows about two feet high and from Spring until frost is covered with heads of purest white, double flowers. Pkt., 25c.

3204. **Adonis vernalis. Spring Adonis.** One of the most attractive ever-blooming plants. Flowers bright yellow. Pkt., 15c.

3206. **Agrostemma. Rose of Heaven.** An attractive free-blooming, hardy perennial, of easy culture, producing bright colored flowers on long, slender stems. Blooms first season, fine for cutting, 2 ft. Pkt., 5c.

3208. **Alyssum Saxatile Compactum.** Has handsome masses of bright yellow flowers. Fine for borders.  $\frac{1}{4}$  oz., 30c; pkt., 10c.

3209. **Anchusa, Italian Dropmore Variety.** Blue, large, for-get-me-not-like flowers. Very fine for the back of the perennial border or for a screen. Five feet high.  $\frac{1}{4}$  oz., 50c; pkt., 15c.

**Anemone. Windflower.** A very pleasing, hardy perennial, producing large flowers; few plants compare with them in beauty; fine for bouquets. Especially good for rock work and sheltered banks. They need extra good Winter protection.

3210. **Coronaria. Mixed Colors.** Poppy Anemone. Pkt., 5c.

3211. **St. Brigid.** A beautiful selection of the above, comprising semi-double and double flowers in a wonderful array of colors. Pkt., 15c.

3212. **Japonica Alba. The Bride.** Pure white. Pkt., 15c.

3214. **Anthemis tinctoria. Hardy Marguerite.** A native of England; grows about daisy-shaped, yellow flowers which come in July and August. Pkt., 10c.

**Aquilegia. Columbine.** Charming hardy perennial plants growing from one to three feet high, bearing in countless numbers through May and June their exquisite blossoms of clear, blue, white, rose, yellow, purple, striped, etc. For planting in permanent borders or naturalizing along the edges of woods or shrubbery they are unsurpassed.

3213. **Northrup, King & Co.'s Single Long Spurred Hybrids.** All colors mixed. Pkt., 15c.

3215. **Northrup, King & Co.'s Double.** All colors mixed. Pkt., 10c.

3216. **A. coerulea alba.** Beautiful white flowers. Pkt., 10c.

3217. **A. coerulea.** Blue flowers from the Rocky Mountains. Pkt., 10c.

3218. **A. chrysanthra. Golden Spurred Columbine.** Vigorous and bushy in habit. 2½ ft. Pkt., 10c.

3224. **A. Jaeschkei.** Yellow blossoms, with carmine spurs. Pkt., 10c.

3219. **A. oxysepala.** One of the most charming of all the Columbines. It is a native of Siberia; very hardy and seems to be more permanent than many species. Pkt., 15c.

3220. **A. Sibirica.** A fine purple-flowered species. One of the best. Pkt., 10c.

3229. **A. Skinneri.** Beautiful orange scarlet centre with yellowish green border. Pkt., 10c.

3221. **A. vulgaris.** Perfectly hardy and of easy culture. Double mixed colors.  $\frac{1}{4}$  oz., 25c; pkt., 5c.

3222. **Arabis alpina.** A low, early blooming perennial with white, fragrant flowers. For rock work, borders or covering steep banks. Pkt., 10c.

3223. **Armeria plantaginea. Sea Pink. Thrift.** Flowers in close, round heads; color light pink or white. They are shaped like white clover heads, fine for bouquets. Pkt., 10c.

3207. **Asperula odorata. Sweet Woodruff. Waldmeister.** Old fashioned favorite, grown for its fragrant leaves and stems, used for putting among linens and also for flavoring May wine Pkt., 15c.

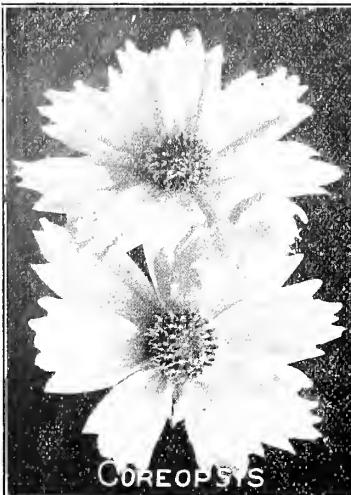
**Bellis. English Daisy.** Daisies are easily raised from Spring sown seed, and come into flower in a very short time. They thrive best in cool, shady places, but do well in almost any soil. They are very pretty when in bloom and deserve to be grown more universally than they are. Admirably adapted for edgings, borders, and low beds 6 to 8 ins.

3225. **Longfellow.** Beautiful deep pink, double. Pkt., 15c.

3226. **Snowball.** Best pure white Daisy, on long stem. Pkt., 15c.

3227. **Double Mixed.** Embracing all colors. Pkt., 15c.

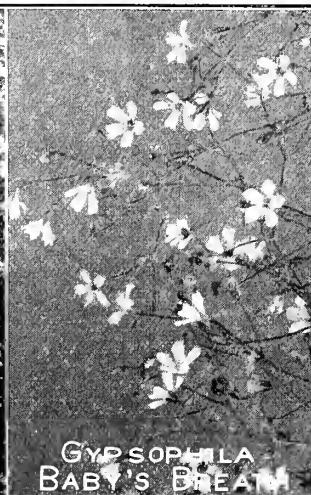
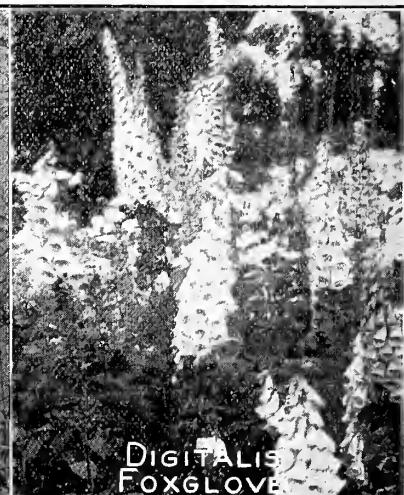
3228. **Callirhoe involucrata. Poppy Mallow.** A trailing perennial of the Malva family, bearing a profusion of large, violet-crimson poppy-shaped flowers. Hardy and easy of culture. Pkt., 10c.



COREOPSIS



SHASTA DAISY

GYPSOPHILA  
BABY'S BREATHDIGITALIS  
FOXGLOVE

**Campanula. Bellflower.** Beautiful, hardy, herbaceous perennials, bearing a great profusion of attractive bellflowers; thrive best in light soil. They will continue to bloom for weeks if given a partially shaded location.

3230. *C. carpatica*. Very charming plant six to eight inches high, deep blue flowers. Pkt., 10c.  
 3232. *C. glomerata*. One to two feet high. Flowers bluish-violet and white. Pkt., 10c.  
 3234. *C. persicifolia*. Flowers blue, shading to white. Pkt., 10c. See illustration, page 73.  
 3236. *C. punctata*. 15 to 18 inches high; flowers nearly white, spotted with red. Pkt., 10c.  
 3238. *C. pyramidalis*. Blue. Steeple Bells. Chimney Bellflower. 4 or 5 ft. Pkt., 10c.  
 3239. *C. pyramidalis*. White. Chimney Bellflower. Pkt., 10c.  
 3240. *C. Rainieri*. A dainty little plant; will succeed in any good soil. Pkt., 10c.

**Canterbury Bells. Campanula calycanthema.** Cup and Saucer. Produces beautiful single flowers three inches in length with saucers three to four inches in diameter. The plants form pyramids of bloom bearing from 100 to 200 of these exquisite blossoms for weeks during the early Summer. A hardy biennial 2½ feet high, flowering the second season from seed. See illustration, page 73.

3242. Rose—Delicate rosy-pink. . . . Pkt., 15c 3248. White—Pure white. . . . Pkt., 15c  
 3244. Blue—A fine, clear shade. . . . Pkt., 15c 3250. Mixed—All colors. ¼ oz., 75c; Pkt., 10c  
 3246. Striped—White, striped blue. . . . Pkt., 15c

**Canterbury Bells. Campanula medium.** The old-fashioned variety which produces large, bell-shaped flowers.

3252. Single Mixed—All colors, ¼ oz., 25c; pkt., 10c.  
 3254. Double Mixed—All colors, ¼ oz., 35c; pkt., 10c.

**Chrysanthemum.** 3258. *C. Maximum*. Ox Eye Daisy. Flowers like the wild white Daisy, but twice as large. Handsome when in flower and the flowers have good stems for cutting. Hardy and easily grown in full sun. Pkt., 10c.

3260. *C. Shasta Daisy*. A hardy perennial bearing large pure white flowers, sometimes four inches in diameter, in great profusion on long, stiff stems fully two feet long. ¼ oz., 75c; pkt., 15c.

3262. *C. lanceolata*. A hardy perennial about 2 feet high. This produces an abundance of large, daisy-shaped flowers on long stems. One of the best of all perennials for cut flowers. See illustration above. ¼ oz., 25c; pkt., 10c.

**Delphinium. Hardy Larkspur.** Very decorative border plants ranging in height from 6 feet tall, whose side shoots flower after the main spike has finished, thus prolonging the blooming period. If the flower spikes are removed as soon as they fade, new ones will continue to appear, at intervals all Summer. The colors run from pure white to darkest blue. Some varieties have a black center, others show a pleasing contrast, in shades of blue, between the inner and outer petals. Stake all varieties when 18 inches high to prevent them being blown down. For cultural directions see top of page 73.

3266. *D. elatum*. BEE LARKSPUR. Flowers very fine, dark to pale blue. Pkt., 10c.  
 3268. *D. Cashmerianum*. From the Himalayas, 10 to 18 inches high. Spreading, many branched. Flowers often 2 inches wide, azure blue. Upper petals almost black. Pkt., 15c.  
 3270. *D. Caucasicum*. Tall with handsome blue flowers. Pkt., 10c.  
 3272. *D. formosum*. Flowers sky blue, shaded with indigo, 18 to 36 inches. ¼ oz., 35c; pkt., 10c.  
 3275. *D. Gold Medal Hybrids*, Mixed. Unquestionably the finest strain of mixed hybrids ever offered. This is the originator's strain consisting of the best-named varieties. The plants are of strong, vigorous habit, with large flowers in massive spikes, the majority running in the lighter shades of blue. ¼ oz., 50c; pkt., 15c.  
 3276. *D. grandiflorum*. SIBERIAN LARKSPUR. Various tinted flowers from deep blue to white. One of the best. Pkt., 10c.  
 3278. *D. nudicaule*. SCARLET LARKSPUR. Numerous short spikes of very red flowers, very attractive. Blooms first year from seed. Pkt., 10c.  
 3280. *D. Sp.*, Kelway's Selection. One of the finest yet offered. Flowers variable. Pkt., 15c.  
 3282. *D. Delphinium*, Mixed. This fine mixture embraces all the preceding varieties, with several others not herein named. ¼ oz., 25c; pkt., 10c.

**Digitalis. Foxglove.** A very interesting family of old fashioned plants, whose culture is so simple as to bring them within the reach of all.

3285. *D. ambigua*. Yellowish flowers, quite pretty. Pkt., 15c.  
 3287. *D. purpurea*, var. *gloxinioides*. This has a very great variety of colors, but as it is difficult to keep them true when growing separately, we offer it only in a mixture. Everyone should plant this strain. It grows in strong clumps and is one of our very finest hardy perennials. Pkt., 10c.

3289. *D. Sibirica*. Flowers are creamy white and quite attractive. Pkt., 10c.

3290. *Eryngium*. Sea Holly. Has heads of handsome amethyst-blue flowers. Pkt., 10c.

**Gaillardia. Blanket Flower.** A very free blossoming perennial bearing large yellow or red daisy-shaped flowers all through the Summer. Easy to grow. See page 63.

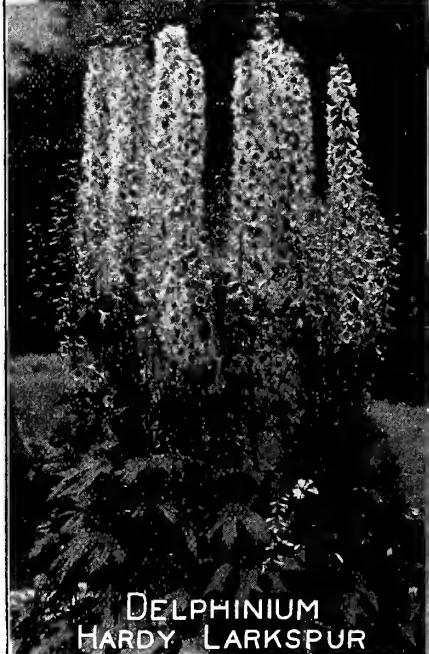
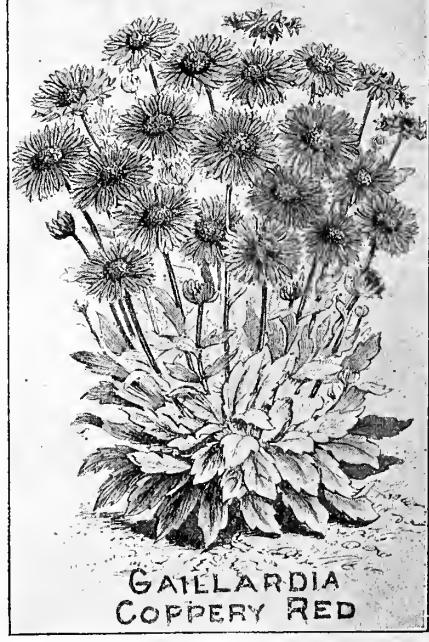
3292. *G. Aristata*. Red and yellow. Pkt., 10c.  
 3294. *G. Coppery Red*. Bears very large blossoms, coppery red shading into a lighter tone at the tips of the petals. Pkt., 25c.  
 3291. *G. Semi-double Hybrids*. Pkt., 10c.  
 3293. *G. Sulphur Eye*. Pale sulphur yellow with maroon eye. Pkt., 10c.  
 3297. *G. Mixed*. A choice combination of all varieties. Pkt., 10c.

**Geum.** Flowers are large butter-cup shaped, borne in profusion; lasting well when cut, they are fine for bouquets.

3286. *G. Double Scarlet*. Large flowers, fine color. 2 feet. ¼ oz., 30c; pkt., 10c.  
 3288. *G. Single Orange Scarlet*. ¼ oz., 30c; pkt., 10c.

3295. *Golden Rod*. *Solidago Canadensis*. The well known, golden yellow favorite. Pkt., 10c.

Make up your list of Northrup, King & Co.'s flower seeds early and have your dealer order them for you. If he does not handle them, send directly to us.

DELPHINIUM  
HARDY LARKSPURGAILLARDIA  
COPPERY RED

## HOLLYHOCKS.

There is a revival of the old-fashioned flowers and Hollyhocks are among the best of the old garden favorites. Always a stately and majestic plant, the improvements in them have been so great that one would scarcely recognize in the old single Hollyhock, the parent of the magnificent and truly gorgeous flower of today.

The most marked improvement is found in the Chater's and Allegheny strains. These are beautiful beyond description.

The Chater's produce for the most part, flowers which are densely double, although occasionally some single blossoms are seen among them. The colors are innumerable, ranging from pure white to darkest maroon, some are bright and gay, others of the softest and most delicate shades and tints. The stalks average about four feet in height but many are 6 and even 8 ft. high. These stalks are densely covered with blossoms as beautiful in texture and appearance as the Rose.

The Allegheny is of quite recent introduction. It grows very tall, and the flowers, though single, are of wonderful beauty and in great variety of color. The Chater's are beautiful beyond description, but the Allegheny is thought by many to be even still more beautiful than the Chater's. Hollyhocks form a capital background for a border of hardy perennials of lower growth, and are also very effective when planted in groups. Once established, as they easily are from seed, they reappear in their place each year. Hollyhocks thrive best in a rich, deep, well drained soil. As usually treated, the Hollyhock is a biennial, but if planted where the water will not settle around the crown in the Winter they become very satisfactory perennials. Follow cultural directions at top of page 73.

### 3325. Single Hollyhocks.

Many prefer the single-flowering Hollyhocks. They are usually of freer growth than the doubles and present a very handsome appearance. Mixed,  $\frac{1}{4}$  oz., 30c; pkt., 10c.



New Giant Flowering Marshmallows.

to 4 buds at the base of each leaf. The buds develop into flowers like the smaller ones, until all have become a beautiful mass of bloom. The colors vary from the palest shrimp pink to deep red. Although the flowers are single they are very beautiful and must be seen to be appreciated. The plants are of strong growth, sending up spikes 6 to 7 feet high. Mixed colors, pkt., 10c.

### Chater's Double Hollyhocks.

3305. Double White.....	$\frac{1}{4}$ oz., 40c; pkt., 10c.	3308. Bright Red.....	$\frac{1}{4}$ oz., 40c; pkt., 10c.
3306. Yellow.....	$\frac{1}{4}$ oz., 40c; pkt., 10c.	3309. Bright Pink.....	$\frac{1}{4}$ oz., 40c; pkt., 10c.
3307. Salmon Rose.....	$\frac{1}{4}$ oz., 40c; pkt., 10c.	3310. Maroon.....	$\frac{1}{4}$ oz., 40c; pkt., 10c.
3315. Chater's Selected Strain, Extra Choice Double Mixed.	Oz., \$1.00; $\frac{1}{4}$ oz., 30c; pkt., 10c.		

3296. *Gypsophila Paniculata*. Baby's Breath. Bridal Veil. The plants are small, starlike and borne in feathery sprays, which are highly esteemed for cut flowers as they lend a most graceful effect when combined in bouquets. This pleasing flower should be in every garden, for it is almost indispensable in the arrangement of flowers, either in vase or bouquet work. See illustration on page 74.  $\frac{1}{4}$  oz., 25c; pkt., 5c.

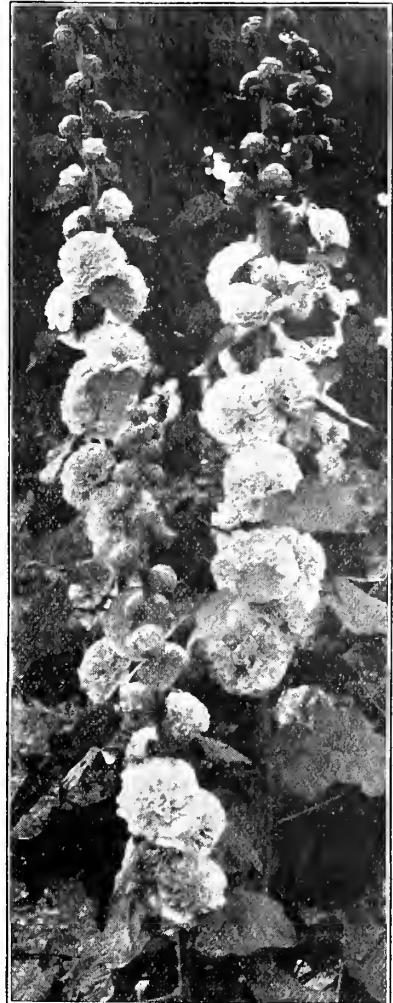
3298. *Helenium autumnale*. A showy native perennial growing 4 to 6 feet high which forms a good sized bush covered in Autumn with single bright yellow flowers giving it much the appearance of the pompon Chrysanthemum. Very valuable for use among shrubbery, lasting in bloom a long while and at its best when most plants are through blossoming. Pkt., 10c.

3300. *Hesperis Matronalis*. Sweet Rocket. Old-fashioned garden plant, and among the Dame's Rocket and Dame's Violet; grows from 2 to 3 feet high, and bears spikes of showy white, lilac and purple fragrant flowers. Excellent for naturalizing among shrubbery or for planting in a permanent border; mixed colors.  $\frac{1}{4}$  oz., 15c; pkt., 5c.

3303. *Hibiscus*. New Giant Flowering Marshmallow. Wonderfully improved form of Marshmallow, in which flowers of great size—frequently ten to twelve inches in diameter—have been developed. The colorings comprise rich, deep red, soft pink and pure white. Plants grow 5 to 8 feet high. Blossom from July until late Autumn. Pkt., 15c.

**Hibiscus. Marsh Mallow.** Hibiscus are from 6 to 9 inches in diameter, their color is a rich, deep cream with a velvety, maroon center. Plants grow from 3 to 5 feet high, and bear from 10 to 20 of their gigantic, bell-shaped flowers at one time. They commence to bloom when the plants are quite young and continue until late in the Fall. Pkt., 10c.

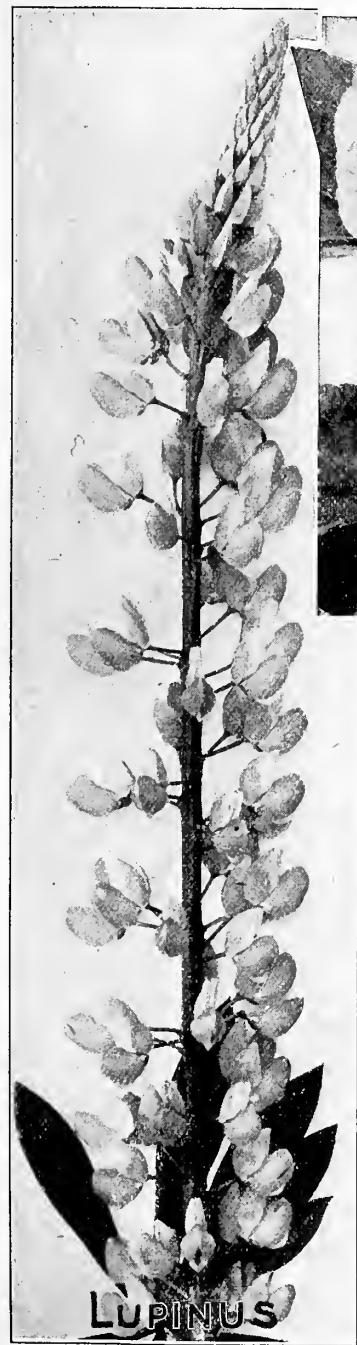
3302. *H. Crimson Eye*. Flowers are pure white, with a rich crimson eye. The flowers are very large, often measuring 7 inches in diameter. It blooms from seed the first year sown in the open ground, lasts year after year. Pkt., 10c.



Double Hollyhocks.

### 3320. Allegheny Hollyhocks.

The flowers are of mammoth size and are wonderfully formed of loosely arranged fringed petals which resemble the finest China silk and have none of the formality of the ordinary type. This variety is a perpetual bloomer and has from 2 to 4 buds at the base of each leaf. The buds develop into flowers like the smaller ones, until all have become a beautiful mass of bloom. The colors vary from the palest shrimp pink to deep red. Although the flowers are single they are very beautiful and must be seen to be appreciated. The plants are of strong growth, sending up spikes 6 to 7 feet high. Mixed colors, pkt., 10c.



LUPINUS

**Honesty. Satin Flower.** Early flowering, hardy biennial with purple or white flowers, and flat round seed-vessels of silvery appearance. Rather curious, but beautiful, and very useful, as house ornaments, 2 ft. 3327. Purple. Pkt., 10c. 3321. White. Pkt., 10c. 3328. Mixed. Pkt., 10c.

**3329. Iberis sempervirens. Perennial Candytuft.** Very desirable plants growing 10 to 15 inches high with glossy, dark, evergreen foliage completely hidden with dense flat heads of white flowers in early Spring. Pkt., 15c.

**3330. Lathyrus. Everlasting or Hardy Sweet Pea.** Showy, free flowering, hardy perennial climber, valuable for covering old stumps, fences, etc., continually in bloom. Good for cut flowers. They require a rich, deep soil. Pkt., 10c.

**3332. Lavandula Vera. Lavender.** The delightfully fragrant old fashioned plant grown so much for perfuming linens, for which purpose the dried flowers are used. Hardy perennial about 18 inches high.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**3335. Liatris. Blazing Star.** Very showy and attractive plants with long spikes of purple and rosy purple flowers from July to Sept. Mixed varieties. Pkt., 10c.

**3337. Linaria. Kenilworth Ivy.** Lavender and purple. A charming, neat, hardy, trailing plant. For baskets, vases, pots and rock-work. Pkt., 10c.

**Linum perenne.** A pretty plant for the border, with light graceful foliage and large flowers produced through the entire Summer. Flowers delicate, light blue and pure white; similar to miniature single Poppies, 12 to 15 inches high.

**3339. Blue. . . . . Pkt., 10c. 3341. White. . . . . Pkt., 10c.**

**Lobelia.** The following dwarfs and trailing varieties of this popular and beautiful flowering plant will be found most desirable for pot culture, edgings, hanging baskets, etc., blooming profusely from June to November. The hardy perennial varieties are among the most attractive of our garden favorites, producing handsome flower spikes.

**3342. Crystal Palace Compacta.** Rich deep blue; dark foliage; the finest dark blue for bedding.  $\frac{1}{4}$  oz., 50c; pkt., 10c.

**3343. Mixed Compacta Varieties.** All colors.  $\frac{1}{4}$  oz., 30c; pkt., 10c.

**3344. Royal Purple.** Pkt., 15c.

**Lupinus polyphyllus. Lupine.** This will be found a great acquisition to any garden. It forms dense bushes about 4 feet high, of elegant spikes completely clothed to the ground with snowy-white and deepest sea-blue flowers. See illustration page 75. Delicately fragrant.

**3348. Rose.** Very fine. Pkt., 15c. 3352. White. . . . . Pkt., 10c.

**3346. Blue. . . . . Pkt., 10c. 3345. Mixed. . . . . Oz., 35c; pkt., 10c.**

**3347. Lychnis. Rose Campion.** Handsome plants of easy culture, growing in any rich garden soil; for massing in beds and borders; blooms the first year if sown early. Flowers white, scarlet, orange, etc. Mixed colors. pkt., 10c.

**3349. Lythrum roseum superbum.** Pretty, hardy perennial; grows three feet high and produces spikes of rosy flowers from July to September. Pkt., 10c.

**Mimulus.** Showy, profuse-flowering plants, comprising numerous varieties with white, sulphur and yellow grounds, spotted with crimson, scarlet and pink, fine for green-house or moist, shady situations; half hardy perennials, blooming the first year from seed if sown early; 1 ft.

**3351. Tigrinus. MONKEY FLOWER.** Fine mixed, spotted varieties. Pkt., 10c.

**3353. Moschatus. MUSK PLANT.** Fine for hanging baskets, etc.; small yellow flowers. Fragrant foliage. Pkt., 10c.

**3355. Monarda. Oswego Tea or Bee Balm.** Fine hardy plants of free growth, about 3 feet high, with aromatic foliage; bright rose and crimson-scarlet flowers in July and August. Mixed, pkt., 15c.



Coreopsis  
lanceolata grandiflora

**3362. Coreopsis lanceolata grandiflora.** This is one of the best, of all perennials for cut flowers. Beginning to bloom in June, it continues to display a profusion of golden blossoms all through the hot weather, uplifted on graceful stems well above the foliage. And how they do last! Often a week or more if cut as soon as they open. We cannot recommend Coreopsis too highly, so would suggest that you try a few plants this Summer and sow seed now for a big bed next year. For culture see page 73.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**3357. Musa Ensete. Abyssinia Banana.** A tender perennial, ornamental foliage plant, growing to a height of 10 to 20 feet. Very effective when planted singly or grouped with other foliage plants. Pkt., 5 seeds, 15c; 25 seeds, 50c.

**Myosotis. Forget-Me-Not.** the first year from seed if sown early. Will bring forth lovely blossoms throughout the whole Summer and Fall. Flowers are borne on long, stiff stems and of the most exquisite sky-blue, with a delicate white center. They succeed best with moisture in a somewhat shaded position.

**3359. Blue. Pkt., 10c. 3361. White. Pkt., 10c.**

**3360. Eliza Fonvobert.** Large flowering. Pkt., 10c.

**3363. Mixed.** All varieties. oz., 25c; pkt., 5c;

**3365. Pentstemon. Beard Tongue.** Attractive plants, much used in the hardy border. The bushes are pyramidal, 2 to 3 feet high, with erect branches thickly set with flowers  $\frac{1}{2}$  inches long, varying in all shades from rosy-white to purple with white or veined throats. Mixed colors, pkt., 10c.

**3367. Physostegia. False Dragon Head.** These handsome plants flower from July until frost, growing 3 to 4 feet high and bear broad, dense spikes of delicate pink tubular flowers not unlike a giant Heather. Pkt., 10c.

**Platycodon. Japanese Bell-Flower.** A member of the Campanula family, with handsome, branching spikes 2 to 4 feet high. Platycodon is considered by many the best bell flower. The illustration, page 77, shows one of the blooms with which the whole spike is furnished. They bear these large, showy, deep-blue flowers continuously from July until frost.

**3369. Grandiflorum.** Tall, deep-blue.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**3370. Mariesi.** Dwarf, deep-blue.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**Perennial Poppies.** These hardy varieties are very beautiful, blooming from June to frost.

**3371. Iceland Poppy.** Similar to the annual Shirley Poppy but in addition to the white, red and pink shades of the latter, the Iceland Poppy is often a fine yellow or orange color.  $\frac{1}{4}$  oz., 30c; pkt., 10c.

**3373. Oriental Poppy.** One of the most gorgeous of all perennials, producing in June and July its enormous blossoms, often 6 inches in diameter. The colors range from soft blush and rose to flaming scarlet and richest maroon. The flower stems are long and heavy, bending gracefully under the weight of the blossoms. The culture is simple if the directions at the top of page 73 are followed. The plants are at their best when about 3 years old. Often one specimen will show 10 or 15 blooms. All colors mixed.  $\frac{1}{4}$  oz., 50c; pkt., 15c.

**3374. Princess Victoria Louise. Salmon Queen.** An Oriental Poppy of an exquisite shade of salmon pink; fine for cutting or for a border plant. Pkt., 25c.

**3375. Fringed Alpine.** Will flower first season if sown early. Flowers are white, rose, salmon or orange. Pkt., 10c.

**3376. New White Oriental Poppy.** A striking novelty, and the most distinct break that has yet been made in Oriental Poppies, it being a pure satiny white, with a bold crimson blotch at the base of each petal. It is unquestionably the most important addition to the list of new hardy perennial plants this season. Pkt., 25c.

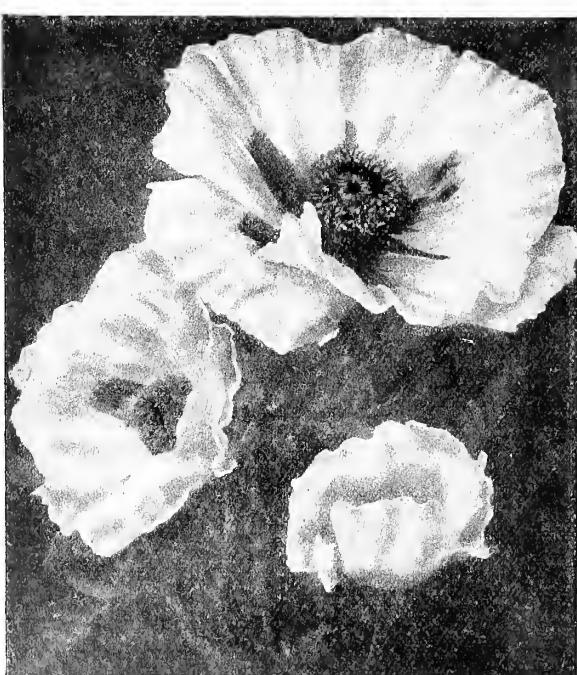
**Annual Poppies.** See page 70.

**Polemonium. Jacob's Ladder.** Highly ornamental perennial; foliage deeply cut; flowers in clusters of blue and white.

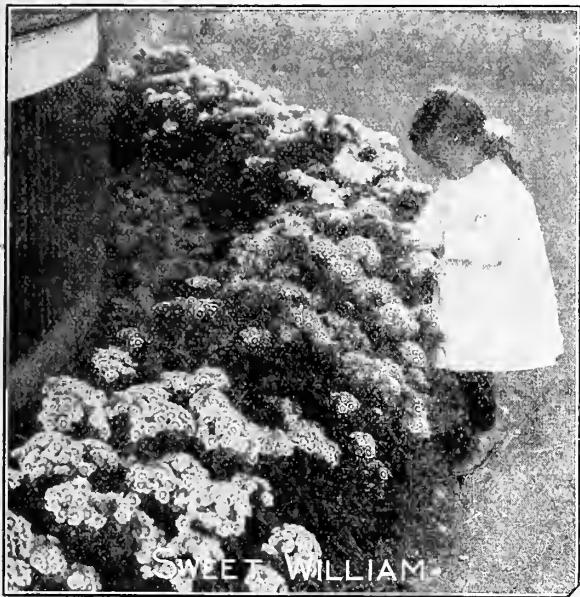
**3382. Deep Blue.** pkt., 10c.

**3378. Pure White.** pkt., 10c.

**3377. Polygonum compactum. Knotweed.** Excellent hardy perennials of dwarf habit, forming bushes 12 to 15 inches high, which are completely covered with a mass of foamy white flowers throughout the Fall. Pkt., 15c.



New White Oriental Poppy.



SWEET WILLIAM

**3400. Stokesia Cyanea. Cornflower Aster.** It grows from 18 to 24 inches high and bears freely, from July to October, handsome, blue, aster-like blossoms, measuring 4 to 5 inches across. It succeeds well in an open, sunny location. It is also fine for the hardy border and for massing. Pkt., 10c.

**Sunflower. Helianthus.** Seeds sown early will produce flowering plants the first year. Hardy perennial Sunflowers are fine subjects for the border.

**3402. Maximiliana.** Flowers single, clear yellow, with several rows of large ray petals and full center. Blossoms late in the Autumn. Height, 6 feet. Pkt., 10c.

**3404. Mollis.** Rich, bright yellow flowers with silvery white foliage. Height, 6 feet. Pkt., 10c.

**3406. Multiflorus fl. pl.** Dwarf double yellow like an Aster; blooming in August. Pkt., 10c.

**Sweet William. Dianthus Barbatus.** A beautiful, free-blooming, hardy perennial producing a splendid effect in beds and borders with rich and varied flowers. The demand for separate colors has induced us to offer several sorts.

3408. Single White..... Pkt., 5c.

3410. Single Crimson..... Pkt., 5c.

3412. Single Scarlet..... Pkt., 5c.

3414. Single Velvet Black Maroon..... Pkt., 5c.

3416. Red, with white eye..... Pkt., 5c.

3418. Single Violet, with white eye..... Pkt., 5c.

3419. Collection. One packet each of the above six colors, 25c.

3420. Single Mixed. All colors, oz., 35c..... Pkt., 5c.

3422. Double Mixed.  $\frac{1}{4}$  oz., 30c..... Pkt., 5c.

**3424. Tritoma. Red Hot Poker.** Although these are hardy plants, many will flower the first year if seed is sown early. They grow about 3 feet high and bear in August blazing, orange-red spikes, blooming until frost. Very effective for cut flowers. Pkt., 15c.

**3425. Verbascum Hybrids.** Ornamental plant growing 3 feet high. Long silvery foliage all shades of pink and violet. Excellent for cutting or for use as a single specimen plant. Pkt., 15c.

**Veronica. Speedwell.** 3426. *V. Spicata*. Height, 18 inches; flowers all Summer; showy spikes of bright blue flowers. Fine for cutting. Pkt., 10c.

3428. *V. Rosea*. Bright rose-colored flowers, produced on spikes 12 to 18 inches long. Pkt., 15c.

**Wallflower.** Half hardy perennials bearing dainty, yellowish, red or orange flowers which have a

delicious odor. These new, early-flowering varieties may be treated as annuals, and if sown in heat during February or March, the plants will bloom freely through the Summer and Autumn. Excellent for forcing. Height 2 feet.

3434. Single Mixed. All colors.  $\frac{1}{4}$  oz., 15c; pkt., 5c.

**Special Perennial Offers.** Raise your own perennial plants from seed. It is not difficult if you follow the directions on page 73. At the slight expense for seed and labor you can obtain a fine assortment of these valuable plants which would cost many times as much to secure in any other way. 12, 10c. pkts., customer's selection, \$1.00, postpaid. 25, 10c pkts., customer's selection, \$2.00, postpaid.

**3379. Potentilla. Dark Red Cinquefoil.** This plant has just the good qualities one expects in a border plant, handsome foliage, free-blooming habit and easy culture. It grows 18 inches high, bearing from July to Autumn its brilliant dark red flowers in profusion. These blossoms are much the shape of a Buttercup. The plant is of bushy growth, throwing up each year its stiff, erect stems, in appearance resembling a low shrub more than the ordinary perennial plant. Pkt., 15c.

**3386. Primula Japonica. Japanese Primrose.** Well known as they deserve; they are hardy, of free, vigorous growth, with dark green foliage, and send up in the late Spring innumerable sprays of large flowers in many colors varying from white to crimson. A moist, rich, almost boggy soil is wanted for this fine plant. Very fine for naturalizing in grove or on a hillside. Mixed colors varying from rich crimson to white. 1½ feet in height. Pkt., 15c.

**3380. Pueraria Thunbergiana. Japanese Kudzu Vine.** The fastest growing hardy plant. Bears small racemes of rosy purple pea-shaped blossoms in August. Grows 10 feet the first year from seed.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**3387. Pyrethrum hybridum.** Bears large daisy-like flowers ranging in color from white to deep red with bright yellow centers; fine for cutting. Blooms in early Spring and again in the Fall. Single varieties, all colors mixed. Pkt., 15c.

**Rudbeckia. Cone Flower.** Splendid plants for interplanting with shrubbery or for a tall border. They are free-flowering with blossoms like a small sun-flower, as suggested by the illustration below. These are borne on strong, erect stems, excellent for cutting. They are of remarkably easy culture, seldom attacked by insects or disease. The plants should be staked when 3 feet high. Keep blossoms cut to prolong the blooming season.

**3390. R. Fulgida.** Very effective variety, producing in August and September, masses of brilliant, orange-yellow flowers, 3 feet. Pkt., 15c.

**3392. R. Newmanni.** Magnificent Autumn flowering perennial; flowers large, bright orange-yellow petals; center maroon, cone-shaped. 3 feet. Pkt., 15c.

**3394. R. Purpurea.** A most striking hardy perennial; flowers all Summer; very large, reddish-purple, an unusual, but attractive color. 3 feet. Pkt., 15c.

**3396. Scabiosa caucasica.** While resembling in shape the annual Scabiosa, this hardy variety bears large blossoms of a delicate lilac blue shade. The plants grow about 2 feet high, blooming from July until frost. A fine plant for borders or cut flowers. Pkt., 15c.

**3397. S. perfecta.** Outer petals azure blue, center lilac. Unusually fine. Pkt., 25c.

For culture of perennials see top of page 73.



RUDBECKIA



PLATYCODON



VERONICA

# SELECT NORTHERN GROWN FIELD SEEDS

Owing to the unsettled condition of the market and to the fact that this catalogue is necessarily prepared in advance of date of issue, no prices are being quoted on Grass and Field Seeds. Seed is offered, subject to prior sale. Order early before our stocks are exhausted. Latest values will be given by dealers in all localities throughout the Northwest who handle Northrup, King & Co.'s seeds. If your dealer will not supply our seeds, write to us and we will see that you are supplied.

## OATS

Drill 2 to  $2\frac{1}{2}$  measured bushels per acre.

**Northrup, King & Co.'s Northland Brand Oats.** The greatest value for uniformly superior quality, carefully selected for fine color and plumpness. The Northland Goose is on every bag.

Last season was not exceptionally favorable for Oats, and much of the home grown crop is unfit for seed. We strongly recommend Northland Oats for everyone who wishes high quality Oats at a moderate price. If your own Oats are run out and yielding poorly, you should by all means get rid of the scrub stock and change your seed.

We especially recommend our Northland Brand Oats to growers who wish to seed a large acreage but who do not care to plant any of our special varieties.

Northland Brand Oats are splendid, heavy white Oats which we believe will give good satisfaction under favorable conditions. The grains are plump and medium pointed, quality good. These Oats are medium early and have strong, stiff straw of good height. Ask your dealer for price on our Northland Brand Oats.

**Big Four Oats.** These are very handsome and heavy white Oats of great productiveness, and have become very popular in many sections of Iowa, Wisconsin, Minnesota and South Dakota. They do very well on ordinary soil. On rich, heavy land they grow so rank, the straw not being large in proportion to its weight, that they are much inclined to lodge. Large yields have been reported from this Oat. We offer stock which is of good appearance and which under favorable circumstances will give an excellent yield of good quality. For prices of all varieties of Oats, ask your dealer or write to us if he can't supply.

**Swedish Oats.** Swedish Oats have given such general satisfaction that we know many will still adhere to this favorite. For the benefit of these we have secured seed which is of the usual high standard. At the Wisconsin Experiment Station it has stood at the head of the list for several years, having been distributed by that station as Wisconsin No. 4. Prof. Moore of Wisconsin, says of the Swedish Oat, "The most satisfactory of all." Prof. Carleton of U. S. Department of Agriculture says, "Probably the best American Oat." Prof. Shepard of the North Dakota Station says, "They are the best drought resister of all our new plants."

Its habit of growth is so vigorous that on heavy soils it is likely to lodge, but for light soils it has no superior.

The name of the dealer in your vicinity who can supply our seed will be furnished on request.



**Northrup, King & Co.'s Lincoln Oats.** Drill  $2\frac{1}{2}$  bushels per acre. We believe the Lincoln to be as fine an Oat as was ever introduced for growing in the Northwest. We make this claim after twenty-four years, during which time it has been grown by thousands of farmers over a wide territory and under various conditions of soil and climate. We introduced this Oat in 1893. It was a fine Oat then; it is even better to-day. Our sales have steadily increased from year to year, until now it is difficult to supply the immense demand. Why has it become so popular? Because of the reputation it has attained people will have it, and insist on genuine seed.

As this was written it seems doubtful whether we shall have many Lincoln Oats for 1918 planting, and it may be necessary to disappoint many who would buy.

**Earliness.** This is not the earliest Oat, as its size and heavy yield cannot be attained in the shortest period, but it matures between the small, early Oats and the late varieties. It gives a yield and a quality which will please the most exacting grower.

**Adaptability.** Our Lincoln Oats are grown in the Northwest and are well acclimated to the extreme weather conditions which exist here both in Spring and Summer. Oats that will grow and thrive and produce big yields in the Northwest, will do well most anywhere, and under nearly all conditions.

**Straw.** A most essential point in successful Oat growing is to have a variety with stiff, strong, heavy straw. The Lincoln Oat is especially valuable in this respect. It stands up under heavy winds and rarely, if ever, does it lodge. Even on rich soil it gives the most satisfactory results. Another characteristic of the Lincoln Oat is its remarkable stooling propensity, which accounts in part for the heavy yield. On account of its strong, robust, healthy growth it resists rust when other sorts are greatly damaged by this disease. No Oat is entirely rust-proof, but we believe the Lincoln to be as nearly free from rust as any Oat can be. Lincoln Oats have a spreading or sprangle top head.

**Quality.** The Lincoln Oat has a thin hull, a heavy meat and soft nib. Whether for home consumption or for market, these points of merit go a long way towards deciding the value of your crop. In addition, the color is a fine white, bright and clean.

**Price of Lincoln Oats.** This page was written too early to fix prices for Spring. Ask the dealer in your town that handles our Oats or if you cannot locate him write to us and we will see that you are promptly supplied if any are available.

### Reg. U. S. Pat. Off.

The above set of abbreviated words conveys the information that the trade mark in connection with which it is used has been "registered with the United States Patent Office." As we were first to use Lincoln as a trade mark for a certain kind of Oats and have continually used it for over twenty years, the United States Patent Office has registered this trade mark and gives us exclusive use of same. It is contrary to law for any firm or individual to use our trade mark without our permission. Every bag of Lincoln Oats which we send out will have in addition to the name, the mark, "Reg. U. S. Pat. Off." No others are genuine Lincoln Oats.



Northrup, King & Co.'s Northland Brand Oats.



Swedish Oats.

## Prices.

Owing to the unsettled condition of the Oat market it is impossible to fix prices at the time this part of the catalogue goes to press. Some varieties are very short this year owing to last season being unfavorable. The late Oats were especially affected by the extreme heat. For prices of all varieties ask the dealer in your town who handles our Oats or write to us if you cannot buy from him.

**Kherson Oats.** These Oats originally came from Russia, where they were known as the best extra early, hardy, good yielding Oats. Kherson Oats, when ripe are a beautiful yellow in color. They have fine large sprangles or full heads. The leaves are broad and extend nearly to the roots. They are a good yielder under favorable conditions. They do much better than many other varieties in dry seasons, giving a fair crop when other varieties yield hardly 10 bushels to the acre. This variety is especially adapted to soils where others would lodge as it has a short, stiff straw, bearing grain nearly one-half its length. It is an immense yielder and on account of its earliness usually escapes rust when other varieties may be entirely ruined. Kherson Oats ripen with barley and the extra early wheats, hence they make splendid succotash mixtures when grown together. We have a fine lot of Kherson Oats for seed. See note at top of page.

**Silver Mine Oats.** This Oat has a reputation as an exceedingly heavy and reliable yielder. It is very hardy and prolific and yields beautiful white kernels, which are especially desirable for the manufacture of rolled oats.

The heads are very large in proportion to the stiff, bright, clean straw. The sprangle top heads, although long, are borne low down on the stalk which seems to prevent lodging. The demand for this variety last season exhausted our supply and we suggest early orders to avoid disappointment. For prices of Oats see note at top of page.

## Iowa No. 103 Oats or White Kherson.

Originating from stock bred by the Iowa Agricultural College, the Iowa 103 Oat has proved its value as a heavy-cropper. One hundred bushels per acre is not unusual. From the first, great care has been used in breeding and selection of the seed and its record on hundreds of farms has justified the faith of its originators.

This variety is a favorite in Iowa and preference for it is increasing rapidly on account of its earliness and apparent freedom from blight or rust. The grain is not large but is plump and heavy, with a thin hull. During growth the yield is deceiving but the results at threshing time prove its value as a prolific producer of grain high in food value. The straw is of excellent strength and on good soil stands up unusually well.

We are unable to quote prices for seed of this popular variety, on account of the rapid changes of the market. Dealers in nearly every locality of the Northwest handle Northrup, King & Co.'s seeds and will either furnish you our Iowa 103 seed from their stocks or can obtain it promptly from us, and will quote latest market prices. If for any reason you cannot obtain prices or a supply of this seed from your dealer write to us at once and we will see that you are supplied as long as the seed stock is available.

## Culture.

Sow Oats at the rate of 2 to 2½ bushels per acre very early in the Spring on a well prepared field with a modern disk grain drill. Deep seeding on heavy clay soils is often fatal to the crop. Two inches is deep enough on a fine, compact seed bed. Where the soil is loose and lumpy a roller or clod crusher followed by a light harrow will increase the yield effectively. This is especially true when a drought occurs early in the growing season.



Sixty Day Oats.

**Sixty Day Oats.** The seed of this valuable Oat was secured in Russia by the United States Department of Agriculture in 1901. Some was sent by the Government to the South Dakota Experiment Station. With only two exceptions, every farmer to whom we have sold this Oat is still growing it and is much pleased with it. It is similar to the Kherson Oat, which has been a marked success in Nebraska, but it is adapted to a section somewhat farther north than that variety. In North Dakota the Sixty Day Oat has headed the list of varieties under trial for the last three years. It is a small yellowish Oat that weighs about 34 pounds a bushel; the hull is very thin.

The Sixty Day Oat has made a fair crop when other varieties failed entirely. It is so early that it may be harvested with barley, and is three weeks ahead of most other sorts. The average yield of Sixty Day Oats at the Minnesota Experiment Station has been 64 bushels an acre. This is not a side Oat. On account of its thin hull the type of Oat to which Sixty Day and Kherson belong is higher in feeding value than most other varieties. In many tests these varieties have ranked highest in the proportion of whole grain to kernel. Sixty Day Oats were worth about three cents more per bushel for feeding purposes than common Oats for this reason. See note about prices at top of page.

## Minnesota No. 281 and Minnesota No. 295 Oats.

Prof. Bull of the Minnesota Experiment Station writes us: "Our trials here show No. 295 yields more an acre and has a thinner hull than No. 281. The character of the berry is inclined to be long and slim while that of No. 281 is of the short, plump, potato type. Minnesota No. 295 also seems to resist lodging better than Minnesota No. 281."

The average yield during 14 years at the Minnesota Experiment Station of the No. 295 Oat is 68.9 bu., of the No. 281 Oat, 62.2 bu. Both these Oats have spreading panicles. For prices see note at top of this page.

## Formaldehyde for Smut.

Do not neglect to treat your Oats with formaldehyde before planting. For prices see page 104. One pint makes about 5 gallons, enough for five bushels of Oats.



A Minnesota Oat Field.



## Harvesting Wheat in Minnesota. SPRING WHEAT

Sow about  $1\frac{1}{2}$  bushels per acre.

**Marquis Wheat** was originated by Chas. and William Saunders of Ottawa, Canada, by crossing Red Fife and Hard Calcutta, a native Wheat of India which had become acclimated to northern conditions. The first experiments were conducted in 1886, and it was not until 1903 that it was fully developed. By scientific cross breeding, a variety was produced that inherited the remarkable earliness of the Calcutta, and the frost-resistant and yielding qualities of the Red Fife. The original stock of seed was very small, but by careful husbandry the amount was gradually increased so that it might be disseminated throughout America.

**A Prize Winner.** Marquis Wheat won the One Thousand Dollar prize offered by Sir Thos. Shaughnessy for the best wheat in America, at the New York Grain Exposition in 1911. It also won the Three Thousand Dollar prize at the International Dry Farming Congress at Lethbridge, Alberta, in October, 1912, in a competition open to the whole world. Marquis Wheat was again successful in winning the Sweepstakes prize at the Dry Farming Congress held at Tulsa, Oklahoma in 1913. During seasons 1914 and 1915 this variety won more prizes and blue ribbons than any other Wheat exhibited at national, state and county fairs.

**Earliness.** Marquis Wheat is from one week to ten days earlier than Red Fife and this fact alone should induce many of our customers to grow it this Spring. Farmers everywhere appreciate earliness and what it means to the Wheat grower at a time when rust, smut, drought or hot winds may take his crop at any time. This week or ten days may save his entire crop from loss.

**Productiveness.** Marquis Wheat has out-yielded all other Spring Wheats grown under the same conditions of soil, cultivation, and climate. The increased yield varies from 5 to 10 bushels per acre. Threshing reports from the three, big, hard Spring Wheat states this past season indicate the same favorable increase in yield of Marquis over other varieties, as has been the case every year since Marquis was introduced.

**Appearance.** Marquis Wheat is similar in appearance to Red Fife, but the heads, as a rule, are heavier and the straw shorter, making it less likely to lodge. The kernel is flinty, a little darker in color than Red Fife, being dark red, and more plump than that variety. It is beardless, having smooth, yellow chaff. Under certain climatic conditions a small percentage of the heads sometimes show a reversion to the Hard Calcutta parent by bearing beards. Otherwise these heads are identical with the bald heads, maturing at the same time and containing the same size and shape of kernel. It weighs from 64 to 66 pounds to the measured bushel.

**Price.** At the time this catalog goes to press no values can be quoted. Ask your dealer who handles our seeds, or if no merchant in your town will get what you want write to us and we will see that you are supplied.

## Northrup, King & Co.'s Northland Brand Spring Wheat.

This variety of Wheat has been selected by us and is of such quality that we feel it is justly entitled to be called "Northland." All who see this Wheat, both the grain and while growing, compliment us on its superior value and fine appearance. It is as nearly pure as wheat can be secured under present conditions which goes far in increasing the yield and reducing the damage by rust and other enemies. This is the variety which furnishes No. 1 Hard Wheat. It is the best selected stock of the Wheat which has made Minneapolis flour famous all over the world, and is undoubtedly the finest stock of Wheat procurable. This is a beardless variety. The kernels are hard and flinty and make the very best grade of flour.

**Price of Northrup, King & Co.'s Northland Brand Spring Wheat.** Ask the dealer who sells our seeds to quote prices. If no merchant in your town will supply you with our seed wheat, write to us.

**Velvet Chaff Wheat.** This is a bearded, smooth chaffed variety, very hardy and a big yielder. In some sections of Minnesota it yields from two to ten bushels more per acre than the Blue Stem. It is early in maturity, from 110 to 115 days. The Minnesota Experiment Station reports a 14 year average yield of 26.7 bushels. For latest values ask your dealer or write to us.

**Macaroni or Durum Wheat.** Sent out by the United States Department of Agriculture under strong recommendation as to its great value for semi-arid lands where good crops of Spring Wheat could not ordinarily be produced, has more than justified every claim made for it. The acreage of this variety is increasing every year in spite of the opposition of some millers. It outyields by far any other variety of Spring Wheat, and it has been demonstrated that it makes bread superior to that made from the best Fife Wheat flour, and has proved to be practically immune to the dreaded rust. In growing it resists extremes of weather which no other Wheat will endure.

In the field this Wheat grows very strong and with surprising rapidity, so rapidly as to get well ahead of the weeds. It does not shell or bleach and is also hail proof owing to the tightness of the hull. The straw is very strong. Prices could not be established when this book went to press, but values will be quoted by your dealer who handles our seeds.

## Northrup, King & Co.'s Minnesota Reliable Winter Wheat.

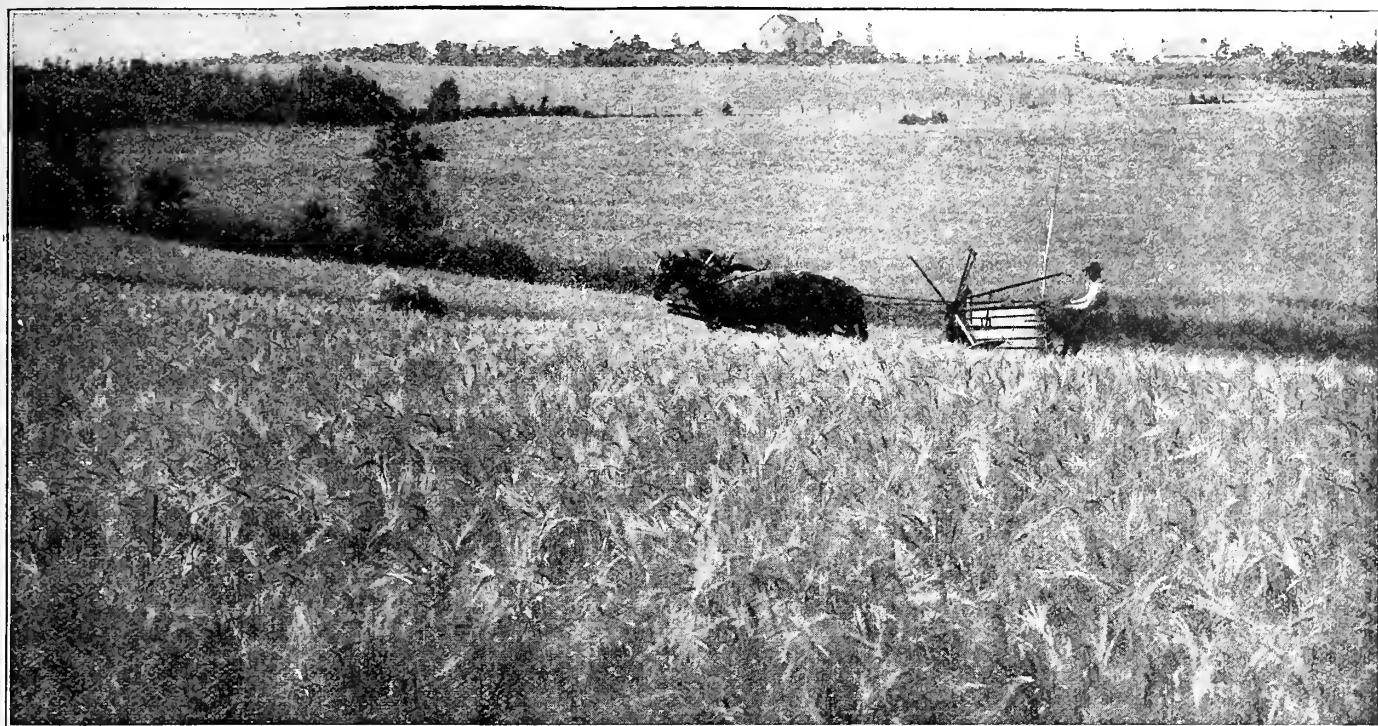
The yield of Winter Wheat an acre is on the average very much larger than any of the Spring Wheats. Winter Wheat has not been extensively grown in Minnesota and the Dakotas until recent years, on account of its inability to withstand the severe winters. Since the introduction, however, of Minnesota Reliable Winter Wheat this has gained the attention of all Winter Wheat growers and the Experiment Stations and is recommended above all other varieties. There has not been a season in 24 years in which this variety has failed to endure the severe tests to which it has been put, including unfavorable weather during Fall and Spring months.

Minnesota Reliable Winter Wheat is very early, ripening before rust, blight, chinch bugs or other insect pests appear. It yields from 30 to 40 bushels an acre and sometimes more on good soils. In quality, it equals the well known No. 1 Hard Fife Spring Wheat and is in good demand by millers.

It is a bearded variety; the kernels are red with a very thin husk, are hard, flinty and very rich in gluten. It is stiff-strawed and will stand up in wind and rain which would lodge some varieties very badly. Reserve your seed supply by ordering now, for new crop seed in the Fall. Too early to name prices.

**Turkey Red Winter Wheat.** A standard, red, bearded Wheat with very strong straw. It is a heavy cropper. Prices will be supplied on request during the Summer.

## BARLEY



For a good stand like this, plant Northrup, King &amp; Co.'s Northland Brand Six Rowed Barley.

**Prices.** When this catalogue goes to press it is impossible to predict Spring prices. It will be well this year to place orders as early as possible. Ask for prices early. See your dealer or, if he does not handle our seed grain, write to us and we will see that your wants are supplied.

**Manshury Barley.** We believe this to be as fine a Barley as was ever offered the farmers of the United States.

Pedigreed Manshury Barley represents the combined efforts of State and National Experiment Stations and private work of Barley experts to produce a variety which will yield plump grains with the greatest protein content, as well as strong, stiff straw and long, well filled heads. In quality both as to feeding value and for malting purposes no other Barley excels it. It yields abundantly. It is early and very vigorous in growth. The straw is strong and stiff. Seldom does a field of this grain lodge. The heads are long and well filled, the grain plump and of the best quality.

This Barley was selected on account of its yield, its desirability as a feeding and malting Barley, and the ready sale with which it meets on account of its good color.

Those desiring to obtain seed to replace run out varieties will do well to purchase at least one or more bags of Manshury.

For prices, see note at head of column.

**Minnesota No. 105 Barley.** For several years the Minnesota State Experiment Station has been breeding and testing many varieties of Barley with a view to producing an improved sort that would lead all other kinds in the matter of yield. This ambition, the Station considers, has been realized in the six-rowed variety here offered under the name of Minnesota No. 105. In comparative tests covering a period of several years and made side by side with the best known and most popular varieties, it has proved to be the heaviest yielder, and from any standpoint, a most valuable acquisition. Minnesota No. 105 Barley has given a nine year average of 53 bushels an acre at the Station farm. It is early, uniform in maturing, and clean. Quantity limited. Two bushels of Barley will seed an acre. Get prices early from your dealer. See information at top of page.

## SPELTZ OR EMMER

Speltz has now been grown in the United States in a large way for several years and each succeeding season not only emphasizes its value, but sees its production increasing to an enormous extent. It is found to be adapted to a wide range of soil and climate, to resist extremes of weather, to be of excellent feeding value and to yield so much more heavily than oats and barley as to insure its increasing popularity and its eventual place among the leading and standard cereal crops of the world. Those who have not grown Speltz should not let another season go by without giving it a place and an important place, too, on their farms.

It is readily eaten by all kinds of stock and has shown itself to be especially adapted when fed to milch cows. It is better to mix it, however with bran and shorts, as it is a pretty heavy feed when fed alone. As a swine feed, we think very well of it indeed, especially for brood sows. While not quite equal to oats, it makes a fair horse feed.

Its most striking value is found in its drought-resistant qualities. Drill two bushels per acre.

Any dealer who handles Northrup, King & Co.'s seeds can quote latest prices on our field and grass seeds. If you cannot obtain them from your dealer, write directly to us.



## Northrup, King &amp; Co.'s Northland Brand Six Rowed Barley.

The greatest value price, of uniformly superior quality, carefully selected for high purity and strong germination. The Northland Goose is on every bag.

The splendid Barley crop this year offers you an unusual opportunity to change your seed and obtain superior seed Barley at low cost.

The U. S. Dep't. of Agriculture advises farmers in Bulletin No. 443 as follows: "The seed is a vital factor in the production of good Barley, for it contains the germ and food material to start either a strong and vigorous plant or a weak and puny one. If the seed is small and shriveled, maximum yields cannot be expected." Bearing this in mind, we have taken great pains to select extra good seed Barley to start with, and then clean it thoroughly by special machinery so that it will be of superior quality. We recommend it strongly as a good yielder under favorable conditions. For prices, see the nearest dealer who handles our seeds or write us if he will not supply you.

## Oderbrucker or Wisconsin No. 55 Barley.

On account of Barley being one of the staple crops, the State Experiment Station of Wisconsin has given particular attention to the breeding of Barley to obtain big yields, protein content and other qualities which are essential for both brewing and feeding purposes. Oderbrucker or Wisconsin No. 55 is considered the best variety of Barley sent out by the Wisconsin Station. Prof. Moore declares it to be superior to the Manshury, yielding 5 to 10 bushels more an acre. Oderbrucker is a stiff-strawed, heavy yielding, six rowed, bearded variety. It is about the same as Manshury in time of maturity, manner of growth and general appearance, but has a plumper kernel and weighs more to the measured bushel. Prof. Moore says: "In stiffness of straw and rust resistance it is superior to any other variety on test." Two bushels of Barley will seed an acre. Ask your dealer to quote you latest prices on this seed.

## Improved White Hulless Barley.

No barley of which has proved so valuable to the stock raiser as the Improved White Hulless. It is not a malting variety, but for feeding purposes there is no Barley raised which can compare with it in earliness, yield and quality. It has many very valuable properties. While it has sufficient hull to hold it in the head, these hulls are readily separated in threshing. The absence of beards makes it safe to feed to all kinds of stock. Its earliness is a characteristic which is especially desirable. It will mature in 60 to 90 days, according to soil and locality. In Montana the farmers use it very extensively as a catch crop. Those seasons in which wheat failed on account of drought, insects or disease, White Hulless Barley was sown in June and had ample opportunity to mature, provided there was sufficient moisture in the ground to start germination.

The grain is exceedingly heavy, weighing from 60 to 63 pounds to the measured bushel. The yield varies according to soil and climatic conditions, but it can be depended upon to produce from 35 to 80 bushels an acre. Its nutritive value is very great. It is fed to work-horses at the rate of 2 quarts where 4 quarts of oats would be required. The best way is to mix it with oats and grind the two together for horse feed. It is also very valuable for feeding poultry, hogs and all kinds of stock.

It is often grown for hay, coming very early and providing rich feed. It should be cut just before it becomes ripe and while the straw is green. In this condition it is relished by all kinds of stock. The straw is stiff and straight, and seldom if ever does it lodge.

For grain sow  $1\frac{1}{2}$  bushels to the acre; for hay, 2 bushels. Latest prices will be quoted by the nearest dealers handling our seeds. Their names will be furnished on request.

## SEED FLAX

All prices are subject to market changes. Ask your dealer.

**Culture.** Flax should not be sown on same land oftener than once in seven years. Treating the seed with formaldehyde before sowing, is often advisable, see page 104. Before sowing, the ground should be thoroughly prepared and it is especially important to have the soil well firmed. Be sure there are no open spaces in the bottom of the furrows as these are likely to cause the roots to rot. Sow 25 to 30 pounds per acre; sow as early as possible and yet avoid the last killing Spring frost. In the southern counties of Minnesota Flax may be sown as late as June 20th, although this will depend largely upon the season.

### Minnesota No. 25 or Primost.

This is a pure bred Flax. It was selected from many varieties sent by U. S. Dep't. of Agriculture to the Minnesota Experiment Station. Here tests were conducted for many years and this variety proved by far the most promising. It showed an average yield of 19.3 bu. per acre for 3 years. This was 3.4 bu. more than the average of three commercial varieties. There can hardly be a doubt that this is the champion variety of the Northwest.

A few years ago seed was sent to a number of Minnesota farmers by the Experiment Station to test the Flax under ordinary farm conditions.

The average yield per acre was 15 bu. which was 3.1 bu. more than common Flax or an increased yield of 26 per cent.

We have to offer this season a few carloads of very fine Minnesota No. 25 or Primost Flax. The supply of this particular lot of seed is not nearly sufficient to cover the demand we will have for it and for that reason we urge early orders if you desire to obtain some of this desirable Flax.

The following quotation from a letter received from one of our customers calls attention to the extreme earliness of this Flax, a feature equal in importance to its yield:

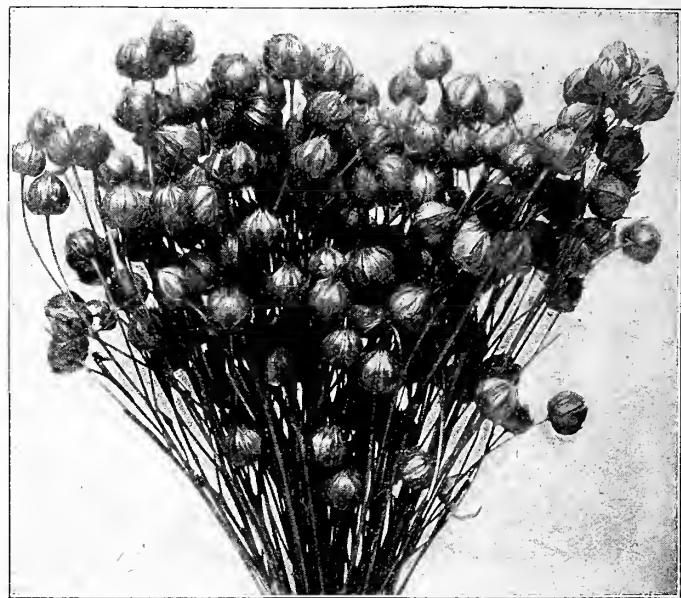
*This No. 25 Flax is fully ten days earlier than any other Flax. This ten days means a great deal to the flax growers of North Dakota. In former seasons I have lost my entire crop when if I had had this Flax it could easily have been saved. I regard this No. 25 Flax as being of inestimable value to the farmers of the Northwest.*

This valuable Flax is also wilt-resistant to a very considerable extent. You can obtain latest prices from the dealer nearest you who handles our seed. Write us if he will not supply you.

### N. D. No. 52 Wilt Resistant Flax.

Flax seed which is resistant to wilt has been bred by continually growing flax on wilt-sick land. Those plants which survive produce seed which is more resistant to the disease than the previous generation. Repeated sowing of each crop on the same land will in time produce seed which is practically immune to the effects of the wilt trouble.

The N. D. No. 52 Flax which we offer was grown in the Northwest by a farmer who states that he could raise no Flax on his land until he got this seed. During the dry season of 1913 under trying conditions he secured a good crop, averaging over 10 bu. per acre. Under ordinary conditions the yield should be much greater. N. D. Press Bulletin No. 57 states, "Wilt Resistant seed as obtained by this department is capable of growing a normal crop of Flax, or even better, on old wilt-sick lands, previously long cropped to flax. Such seed will keep this resistance against wilt just as long as the seed is properly handled". Ask your dealer for prices or write us if no merchant near you will supply.



Specimen Heads of Minnesota No. 25 or Primost Flax.



**Northrup, King & Co.'s Northland Brand Seed Flax.** The greatest value for a reasonable price, of uniformly superior quality, carefully selected for high purity and strong germination. The Northland Goose is on every bag.

Prof. Bolley of the N. D. Experiment Station especially recommends "plump, bright colored seeds—because they probably grow upon strong or vigorous mother plants and are thus not likely to be internally diseased." Northland Brand Flax is meeting with approval throughout the Northwest. It ripens in midseason and under favorable conditions, yields splendidly.

Cleaning Flax so as to make it suitable for seed is an expensive operation, requiring special machinery and often involves considerable waste, but we take great care to do this thoroughly. Mustard, being the same size and weight is very difficult to remove. Ask your dealer for sample of this Flax and note its splendid quality. Get his special prices on large lots.

If your dealer will not supply you write us and we will see that your order is handled promptly.

## BUCKWHEAT

**Seeding.** Sow  $\frac{1}{2}$  to 1 bushel per acre, as late as possible and still have crop well developed before severe frosts occur. Light, well-drained soils are best for this crop.

**Japanese Buckwheat.** Entirely distinct from all other varieties. It has the advantage of remaining for some time in bloom and produces seed earlier. On this account it can be grown farther north. It resists drought and blight very well. The seed is rich dark brown in color and larger than Silver Hull. As much as forty bushels to the acre have been harvested of this variety making it very profitable to raise. Buckwheat is now sold at 50 lbs. to the bushel. Ask your dealer for prices.

**Silver Hull Buckwheat.** This valuable variety originated abroad and is a decided improvement on the old black or gray sort. It is early, remains longer in bloom than other sorts. A fine variety for honey bees. The grain is of a beautiful light gray color, and has a thin husk. Millers prefer Silver Hull, there being less waste and it makes whiter, better and more nutritious flour than other varieties. Silver Hull is more productive and the grain meets with a more ready sale, bringing higher prices than the Japanese. Under favorable conditions it will yield 40 to 50 bushels an acre. For latest values consult your dealer or write us if he will not supply.

## RYE

**Spring Rye.** True Stock. Spring Rye makes an excellent crop where winter grain has been killed out, or for sowing where a fall crop has not been planted. If desired it can be turned under and made to answer a good purpose in adding to the fertility of the soil. Sow seed same time as other spring grain. Does not grow quite so large straw as Winter Rye, but usually yields well and grain is of fine quality.

We wish to emphasize the fact that we sell the genuine Spring Rye, sown in the Spring and harvested the same season. We now offer an extra fine grade. To insure receiving enough for your requirements we advise placing your order early, as we have only a limited quantity. Sow about  $1\frac{1}{2}$  bu. per acre. Call on your dealer at once and obtain latest quotations on our seed.

**Northrup, King & Co.'s Amber Winter Rye.**

Amber Winter Rye is much hardier than Wheat and can be grown on greater variety of soils. It will thrive in dry seasons and on light sandy loam. It is grown for grain, fodder, soiling purposes and green manure. Sow Aug. 20th to Sept. 15th— $1\frac{1}{4}$  bu. per acre if for grain, and  $1\frac{1}{2}$  to 2 bu. per acre for Fall pasture. If drilled 2 to  $2\frac{1}{2}$  in. deep there will be less danger of Winter killing. Makes an excellent pasture for pigs, calves and other young stock. It should be sown early in the Fall for this purpose. In the Spring sow about five pounds of Dwarf Essex Rape per acre on the Rye, which may be covered with a harrow without injury to the Rye.

Rye may be pastured very early in the Spring. The Rape will continue the supply of green feed when the Rye disappears. Try a Rye and Rape pasture and thus prove its value. Prices named on request.



A Field of Buckwheat in Bloom. Fine for Bees.



A Typical Field of Minnesota Grown Corn.

## THE SEED CORN SITUATION FOR 1918.

In preparing this catalogue for publication, many problems present themselves for consideration. These pages on Seed Corn are especially puzzling.

Apparently at this writing, there is extremely little Seed Corn throughout the Northwest which is fit for Seed purposes. The 1917 crop obtained a very slow start, it suffered from frosts early in September and this was followed by wet, cold weather in October. Very little Seed Corn matured and that which did was so full of moisture that it was impossible to cure it properly before the arrival of freezing weather. This condition was quite general and affected not only Wisconsin, Minnesota, North and South Dakota, but also Iowa, Nebraska, Northern Illinois and Northern Indiana, as well as large portions of other States still further South.

Two years ago we faced a similar situation, but fortunately at that time there were large quantities of Corn from the previous crop upon which we could depend for seeding during the Spring of 1916, and because of that fact the Corn acreage was not greatly reduced.

### Seed Corn is Scarce.

At this time, however, conditions are very much different. High prices which farmers have been able to secure for their Corn have induced almost all of them to sell their 1916 Corn for feed. A thorough canvass of Minnesota and adjacent territory proves conclusively that there are but very limited quantities of 1916 Corn obtainable. Further, careful ear tests made on hundreds of different lots of 1917 Corn, indicate that not one ear in twenty is suitable for Seed. The average germination of the Minnesota Corn crop for 1917 does not exceed 20%.

### Farmers Urged to Save Every Ear.

When we realized this fact, we at once urged the United States Government through its various departments, including the Federal Reserve Bank, Experiment Stations, Bureau of Markets and other allied organizations, to induce farmers throughout this territory to carefully save every good ear of Corn, to test each ear individually, to cure it in a dry place and to save all surplus Seed Corn beyond their own requirements, for their neighbors or others in their vicinity not so fortunately provided. We also furnished news and editorial articles which were used in newspapers, farm papers, bankers' magazines, grain and elevator journals and other publications which circulated throughout this territory.

The Government, realizing that it was too much of a commercial risk for seed firms to assume, to buy up and ear test the 1917 crop, followed up our suggestion and has spread this propaganda throughout the States most seriously affected.

### Our Supply is Limited.

About one million bushels of Seed Corn are required normally to seed the acreage in the three States of Minnesota, North and South Dakota. It has been estimated that probably not over 20% of the necessary amount of Seed Corn is available. As the result of our investigations, our experts were successful in securing a few thousand bushels of Seed Corn, mostly 1916 crop, which we are testing and hope to spread as widely as possible over the Northwest so that it will do the most good. To make this distribution as uniformly as possible, we are placing it in the hands of dealers who sell our line of Seeds in the Northwestern States. We have not nearly enough to go around so will sell it to those who first accept our offers.

### The Value of Seed.

What the price will be cannot be determined at this writing, or until the average costs and losses on Corn which is found unsuitable have been definitely computed. The question as to what a bushel of Seed Corn is worth is worthy of consideration. At fifteen dollars per bushel, good Seed Corn costs less per acre this year than any other grain a farmer can sow—Wheat, Rye, Barley, Flax or Oats.

### Situation is Critical.

The Corn crop of the Northwest is in jeopardy. Every farmer should seed as liberal an acreage as he possibly can, providing he is able to secure Corn fit for that purpose. Not an ear of Corn should be wasted and those who are fortunate enough to have good Seed Corn should see to it that someone else not so well situated should be given an opportunity of obtaining a supply to cover his requirements.

On the following pages we are listing and describing the varieties usually sold in this locality, so as to keep our catalogue complete. Whether we will be able to offer any of these kinds during the Spring we cannot say.

### Importance of the Corn Crop

We must not underestimate the importance of growing all the Corn possible during the war and for several seasons following. Used for home consumption, Corn is perhaps the most necessary substitute for those grains which will be needed for shipment to Europe to provide food for our army and for use of our Allies. The assurance that after the war European countries will for some time need all the foodstuffs we can furnish, promises a profitable market at home for every bushel of Corn raised.

### Keep up the Acreage

It is therefore the duty of every American farmer to do what he can this season to keep up the Corn acreage. Not an ear of Seed Corn should be wasted. All seed should be tested early and whenever individuals find they have even a slight surplus it should be made available for others who are short. One of the best ways to help the situation is to report the surplus to the nearest banker or to the state experiment stations.

Even low germinating Corn must be used for seed in many cases. It should certainly be used when better seed is not available, but care should be taken to plant a greater quantity to the acre so as to insure a normal stand.

In view of the scarcity of good seed, it is well to guard against the use of Southern Corn for planting in states where it will not mature. Such a practice will inevitably result in disappointment and loss, except where the crop is intended for fodder only.

### Next Year's Seed.

As has been our custom for many years, we reserved sufficient Seed from our pedigreed stocks of high bred Seed Corn to cover two years' requirements of our own fields of Corn. We have on hand now special Seed Corn which is almost priceless. To lose that now would be to sacrifice our efforts in breeding Seed Corn in the Northwest for the past thirty years. Barring accident or unfavorable growing conditions, we expect to have a full line of Seed Corn to offer in the Spring of 1919.

### Act Quickly.

See your dealer at once about your Seed Corn requirements or if no merchant in your locality handles our line, write to us and we will give you information as to available supplies.

# EXTRA EARLY YELLOW DENT SEED CORN FOR NORTHERN PLANTING.

Plant 6 to 8 lbs. per acre.

## Minnesota Early Yellow Dent.

An early and hardy full dent Corn. The kernel is not so deep and the cob is larger than our Dakota Yellow Dent or Pride of the North, but it can unquestionably be safely grown a little farther North than either of these varieties. This Corn will stand as many hard knocks as any other full Yellow Dent. We are now offering a limited quantity of our own, Minnesota grown, Early Yellow Dent Corn, grown from our own seed stock, carefully selected and tested. This Corn has been shelled and graded and shows high germination. In view of the great demand for good Seed Corn this season, we suggest that you order immediately upon receipt of this catalogue, to avoid disappointment. For prices see explanation on page 83.

## Longfellow Yellow Dent Corn.

See Illustration on the Right.

A handsome, productive, long eared variety that has been raised in Minnesota for years by farmers who appreciate its splendid qualities. They grow it every year regardless of flattering reports about taller, late varieties that grow big stalks but no larger ears.

The ears of Longfellow Yellow Dent are almost as long as those of the standard flint sort bearing the same name. The kernels are set very closely on the cob and are quite deep for a strictly Northern variety. Another advantage is that these long 10 to 16 rowed ears will cure more readily than a variety with shorter ears having 16 to 24 rows of kernels. The shape of Longfellow Yellow Dent is very desirable for feeding stock, especially calves and yearlings as they can handle these better than the short, heavier ears of some other sorts.

Also, stockmen who have been growing the 8 row flint Corn to feed from the bundle will welcome the Longfellow Yellow Dent because of its heavy yields and absence of suckers while growing. It has the desirable qualities of the flint Corns in shape and size of ear and in addition the splendid feeding value of a first class yellow dent Corn. It is a pleasure to husk the long ears of Longfellow Yellow Dent—the nubbins are few and the ears are easily separated from the stalk.

Longfellow Yellow Dent is worthy of a trial on every farm in the Northwest where an early, dependable Corn is in demand for feeding purposes. It is also desirable for stockmen in the North who want grain as well as fodder in their silos. Plant  $\frac{1}{2}$  bushel of seed per acre in drill rows for ensilage.

This Corn we first offered two years ago. The letters of praise and the flattering statements made to us by those who bought from us last Spring justify us in placing this variety permanently on our list. A North Dakota farmer who visited us said he preferred Longfellow Yellow Dent to any other variety for growing in his section. In addition, the yield was greater than other sorts returned to him.

For prices see page 83.

## Northrup, King & Co.'s Dakota Dent

Earliest Full Yellow Dent. 16 to 20 rows; recommended for planting south of the 46th parallel of latitude. Thousands of bushels sold since introduced. It grows 7 to 8 feet in height; cob small, well filled out to the end with long, deep grains. It is a very heavy yielder. A fine sort for southern Minnesota, South Dakota, and Wisconsin. Average height stalk, 8 ft. 1 in., average distance base of ear from ground, 3 ft. 2 in. At the time this page was prepared for the press it was too early to make prices, and for statement of seed corn conditions see page 83.

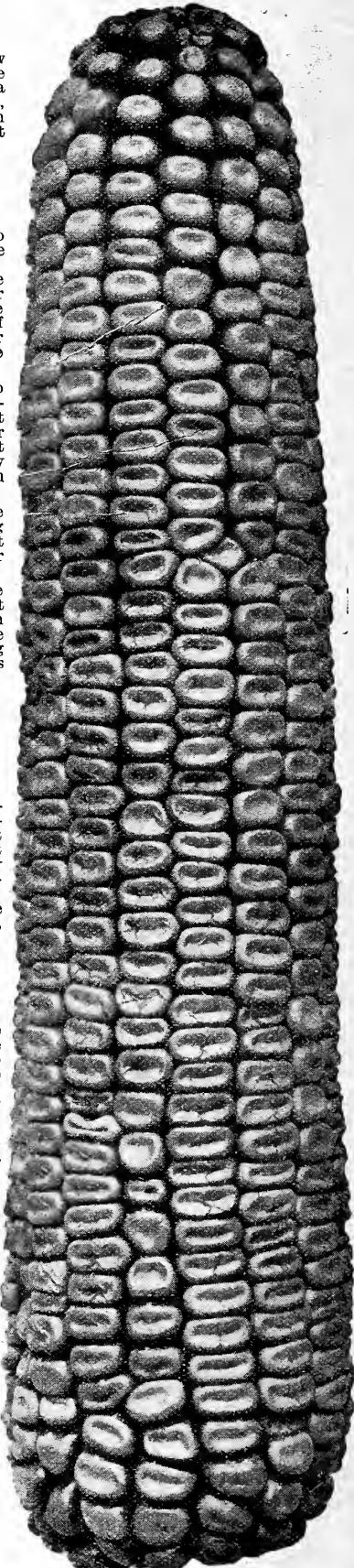
## Pride of the North

A Dependable Early Yellow Dent Corn. In some sections of the Northwest it equals other varieties in yield and quality. The stalks are well proportioned, being short jointed and leafy. Two or more well developed ears are frequently found on a single stalk. The kernels are very deep and closely set on the ear. Pride of the North shells more Corn in proportion to cob than most other varieties grown in the West. It is specially valuable to stockmen to feed in the bundle thus saving the expense of husking. Average height of stalk 8 feet, average distance base of ear from ground, 3 feet. Prices on Seed Corn cannot be named now, but see page 83 for explanation.

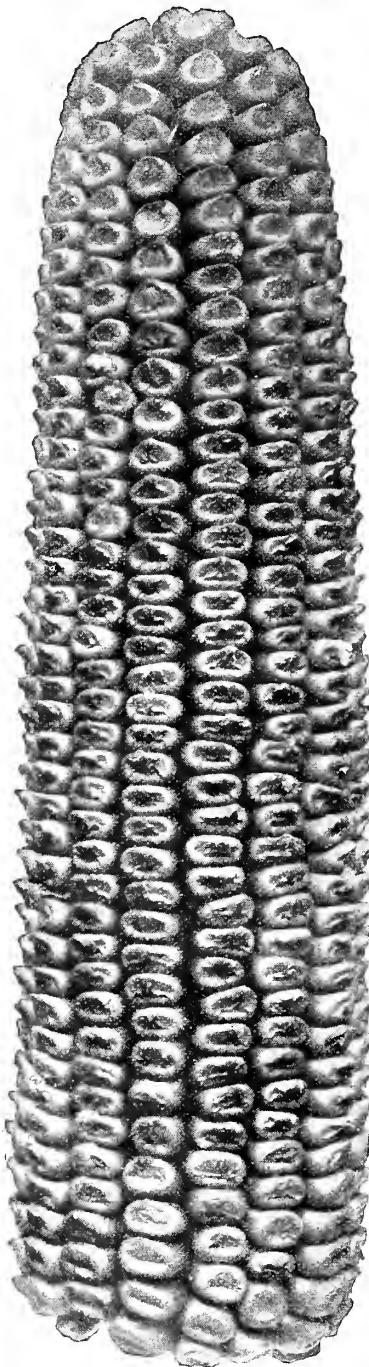
## Northrup, King & Co.'s Minnesota King Corn

Our Own Minnesota Grown Seed. (Yellow Half Dent).

We regard this Corn (introduced by us in 1889) in some respects, as one of the most valuable early varieties. There are varieties that under favorable circumstances will yield as much, but year in and year out, through fat years and lean years, there are, we believe, few that will do so well. It seems to possess a faculty of growing right along and making a crop during weather and under conditions that would ruin some varieties. We do not know of any good reason why this should be so, unless it be that it roots more deeply; not only is this our own experience, but we have received like testimony from hundreds to whom we have sold it, the general expression being that for ability to endure extremes of heat and cold, flood and drought it is unexcelled. In appearance the Minnesota King is remarkably distinct, being a half Yellow Dent; the kernels are very broad and of an extremely rich, golden color. Average height of stalk, 7 ft.; average distance base of ears from ground, 3 feet. The ear is of good size, eight rowed, cob small. Prices on Seed Corn are uncertain at this time, but a full statement of conditions is given on



Longfellow Yellow Dent Corn.



## Northrup, King & Co.'s

# STERLING WHITE DENT CORN

### A Corn With a Record.

Pedigreed Seed Corn, like pedigreed stock, must have a record, and our Sterling White Dent Corn has a proud one. The ability of Northrup, King & Co.'s Sterling White Dent Corn to mature early and produce large crops is due entirely to its breeding and selection—work which we have conducted for many years. It is the largest eared, extra early Corn grown in the Northwest, the ears averaging at husking time nearly, if not quite, one pound. The stalk attains under normal conditions a height of eight feet; the ears are about 3 ft. 8 in. from the ground, rendering it easily handled with a Corn harvester; the foliage is large, healthy and makes unusually fine fodder and is one of the very best varieties for that purpose. It has given the greatest average yield of any early Corn we have ever grown. In field tests with other leading varieties planted under precisely the same conditions, and given the same treatment, it has averaged a very much greater crop than any of the other varieties. The constitution of the Corn is such as to resist extremes of weather to the last degree, and we offer it with the conviction that it will prove a sensation to all those who want an extra early white Corn.

We consider that our Sterling White Dent Corn has the widest range of usefulness and adaptability to soil and climate of any of the full dent Corns. Some of the flint sorts are earlier and thus safer for extreme conditions. There are also later and larger eared sorts, which under normal conditions would perhaps more satisfactorily meet the ideas of the Corn growers of Illinois, Indiana, Kansas, etc., who are accustomed to the extremely large eared and deep kernelled sorts of the South, but for the Corn lands between the 42nd and 46th parallels of latitude, allowing for reasonable variations in time of seeding and character of soil, we know of no Corn to be compared with it as a large and reliable cropper. Where weather conditions are such as to compel late planting or replanting, or where for any cause an early variety is wanted, no sort can excel our Sterling White Dent. An extra early Corn that will and has yielded under good tillage in Minnesota over 100 bushels to the acre is not to be decried by Corn growers anywhere and will be appreciated by the farmers of the Northwest. Owing to the unusual conditions affecting the Seed Corn crop which are explained on page 83, it is impossible to quote prices at the time this catalogue is printed.

### Minnesota Early White Dent Corn.

This is a choice White Dent Corn distinct from the Rustler or Sterling White Dent varieties but similar to the Rustler White Dent in type. It produces large, heavy ears on stalks which average eight feet in height. The average distance of ear from the ground is 3 to 3½ feet. This Corn is of our own growing and was raised in Minnesota where it has matured satisfactorily for many years.

In general there is not the demand for White Corn that there is for yellow. This is largely a matter of prejudice as they are practically the same in feeding value. We urge the general growing of this splendid Corn. It is a first-class variety for general farm use—as a grain feed, for ensilage or forage. For prices see page 83.

### Minnesota No. 23 Corn.

This variety has been grown in the Northwest for a number of years. It is a white capped yellow dent Corn that has been developed at the University Farm in St. Anthony Park and is strongly recommended by them.

We quote from Farmers' Institute Annual No. 23 as follows:

"The Northeastern Experimental Farm, in co-operation with Prof. C. P. Bull has conducted experimental work with different varieties of Corn with a view of determining their adaptability and yield.

Minnesota No. 23 has given the most satisfactory results, and has been selected as a standard variety for northeastern Minnesota. During the season of 1910 Minnesota No. 23 yielded at the rate of 36 bushels shelled Corn per acre under field conditions. Of this 80 per cent was quite well matured. It was planted May 25th and stricken with frost September 8th, giving it only 96 days growth."

The Northeastern Experimental Farm is located at Grand Rapids, Minn. which is farther north than Duluth. Minnesota No. 23 Corn produces a fine appearing ear, medium to short in length and very uniform as to size. Stalks grow about six feet high and the ear is borne from 2 to 2½ feet above the ground. It may be easily harvested with a Corn binder.

If Dwarf Essex Rape is sown in at the last cultivation of Minnesota No. 23 Corn the result will be a splendid pasture for hogs or cattle. See note above regarding prices under Sterling White Dent Corn.

### White Cap Yellow Dent.

We have grown this Corn for several years, and although it is very early and a great yielder, we have not liked it so well as some other sorts on account of the color of the grain, the cap of the Corn being white and the balance a pale yellow. The increased demand for it, however, and the reports we receive about it, many of which are really astonishing, compel us to recognize the fact that the prejudice we have had against this Corn on account of its color, was prejudice pure and simple, and that White Cap Yellow Dent Corn has come to stay and ought to stay. Our stock of this Corn is invariably exhausted very early in the season, thus proving its growing popularity each year. See page 83 regarding 1918 prices.

### North Dakota Golden Dent Corn.

This variety is all the name suggests, an extra early, beautiful yellow dent Corn. The stalk is rather dwarf in its growth; the ears are fair size and well placed, sufficiently high above the ground to admit the use of a Corn binder in harvesting the crop. Golden Dent is in demand with feeders who want something to be used as a starter for stock to be fed in the pastures during the Fall. This variety will make good ears when closely planted in drills. We advise the use of 6 to 8 qts. of seed an acre when drilled. Conditions same as noted under Sterling White Dent Corn above.

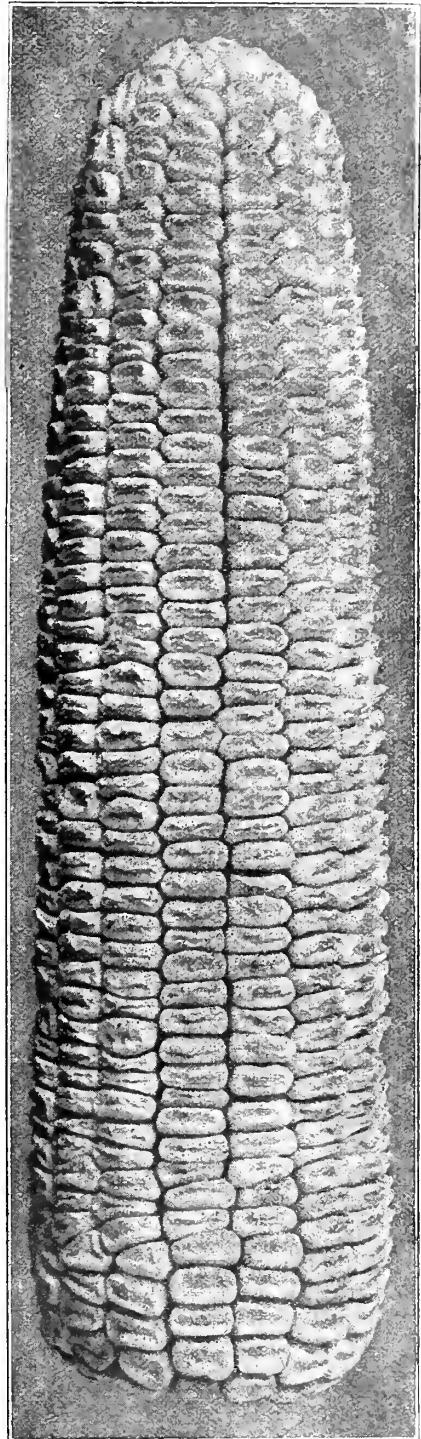
### Seed Corn With A Pedigree.

For more than twenty years Seed Corn has been one of our specialties and we have been working constantly to improve our strains of the leading varieties. When you purchase Seed Corn from us you are assured that it is all we claim for it—selected stock from heavy yielding types that have been bred up for generations.

We urge every farmer to plant as large an acreage of corn as possible this year. Corn is one of the most valuable crops of American agriculture and the nation needs every ear that can be produced. To plant this crop, each farmer must take precautions early to secure the right kind of seed, for the supply is extremely short.

Read page 83 carefully. If you haven't enough good seed on hand try to locate a supply immediately.

**Booklet on Field Corn.** We have condensed much valuable information in this booklet on varieties best adapted for the Northwest, preparation of the land, seeding, cultivation, harvesting, and storing. It will be sent free to any address on request.



Northrup, King & Co.'s Sterling White Dent Corn.  
(Reduced in size.)

#### Greatest Corn for this State.

For fourteen years I have used your field seeds—wheat, barley and seed corn. Your Sterling White Dent Corn I regard as the greatest corn for this state. The high germination of your seeds strikes me as remarkable.

HANS GEO. ANDERSON,

Nicollet Co., Minn.

#### The Most Satisfactory.

I think I have been using your seeds since you started in business. Your Sterling White Dent Corn has proved the most satisfactory.

A. W. HALEY, Clark Co., Wis.

#### Always Satisfactory.

The seeds which I have bought of you during the last 20 years have always proved satisfactory. Your Seed Corn can be well recommended for the North.

HENRY E. VOIGT,  
Hamburg, Wis.

## Rustler White Dent Corn

This early White Dent (14 to 18 rows) was obtained from a few kernels sent us in the Autumn of 1884 by a Dakota farmer, who stated that he had matured it in that state for seven successive years; that it was the only Corn in his section that could show such a record. For early ripening, great yield and compact growth of ears it is one of the best; admirably adapted to a northern climate. Average height of stalk, 8 feet; average distance base of ear from ground, 3 ft. 6 in. Those wishing a first-class White Dent Corn will find in the Rustler a hard Corn to match.

At the time this catalogue goes to press it is impossible to fix prices on seed Corn. The review of the 1917 crop season on page 83 explains the situation. It is probable that good seed stock will be scarce this Spring so we suggest that you make sure of your seed by ordering upon receipt of this catalogue.

## Minnesota Ideal

### One of the Largest Long-eared Varieties Grown in Minnesota.

Those who have grown this variety extensively claim that it will out-yield Minnesota No. 13 ten to fifteen bushels to the acre when raised under the same conditions of soil and cultivation.

It is a yellow dent Corn of fine appearance. It has been grown for a number of years in the southern part of Minnesota and has gradually been worked north and is now safe for planting in the latitude of Minneapolis.

The stalks are stiff and strong, about 8 ft. high, and will stand well in windstorms. The ear grows from 3 to 3 1/2 ft. above the ground.

This Corn will produce uniform ears on nearly every stalk. There will be very few nubbins. This seems to be a peculiarity of this variety. See note under Rustler White Dent Corn.

## Gold Medal Corn

### An Extra Early Full Yellow Dent Corn.

A 14 to 18 rowed variety with ears averaging eight to nine inches long. The type is well fixed, the ears resembling almost every other ear, and on account of the high degree to which it is bred, it produces almost no nubbins or small ears. The history of this Corn affords a striking example of what may be accomplished by intelligent and unremitting effort in a fixed direction. For twenty-five years this Corn has been grown in this county (Hennepin Co., Minnesota). During the earlier years of its growth here the ears were small and without uniformity, but by careful breeding and selection it is improved until now we have one of the earliest and most productive yellow dent varieties, with ears of good size and the best quality. The kernels are not so deep as our Dakota Dent or Pride of the North, but are smoother and of more handsome appearance. On good soil and fair cultivation this variety has yielded about sixty bushels to the acre, sometimes more but seldom less. As it matures in about ninety days, it is ripe usually before frost. See page 83 for conditions surrounding the 1917 crop of seed corn.

## Early Murdock

### Suitable for Southern Wisconsin, Southern Minnesota and South Dakota.

This is a standard and well known variety in Iowa and southern Minnesota. We have been working on the variety for several years to acclimate it to sections farther north. We can usually offer very fine seed which is safe for growing in the three southern tiers of counties of Minnesota and corresponding territory east and west, in South Dakota and Wisconsin. It may also be grown anywhere south of the locality mentioned and in favorable seasons, would do well even a little north of Minneapolis.

It is considered one of the most productive and as early as any of the deep-kernelled varieties. It is well established in type and is growing in favor with those who know it. It is one of the most dependable of the later varieties. It has a stout, stiff stalk which stands well in storms, growing 6 to 8 ft. high. The ears are borne well up on the stalks. It almost invariably yields well and with good care and favorable conditions, will give very large crops. See page 83 regarding Corn situation.

## POP CORN

### Big Money in Little Things.

Very often there is good money in "little things" which, because they are small, people are likely to overlook. Popcorn is one of these.

#### ITS PROFITABLE USES.

1st. It yields of shelled Corn of the very best feeding value at the rate of 8 to 10 tons an acre.

2nd. The small ears which mature early, are very valuable for pigs, calves and young stock generally, especially during the Fall and Winter months.

3rd. The yield of ear Corn to the acre is quite equal to any of the larger and later varieties, as it can be planted much more closely than the larger varieties of Corn.

4th. Thousands of carloads of Popcorn are annually sold for popping purposes, the consumption having greatly increased since the advent of "Cracker-jack" and other like preparations.

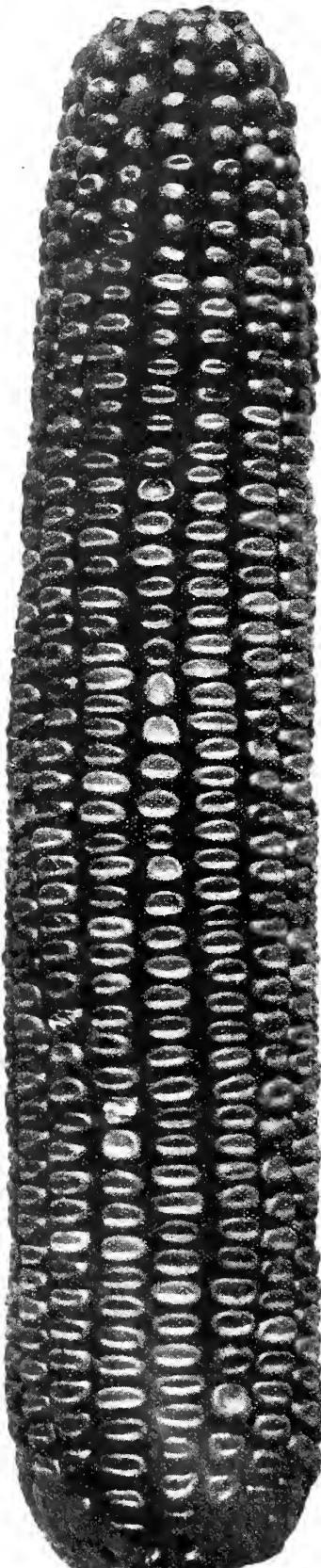
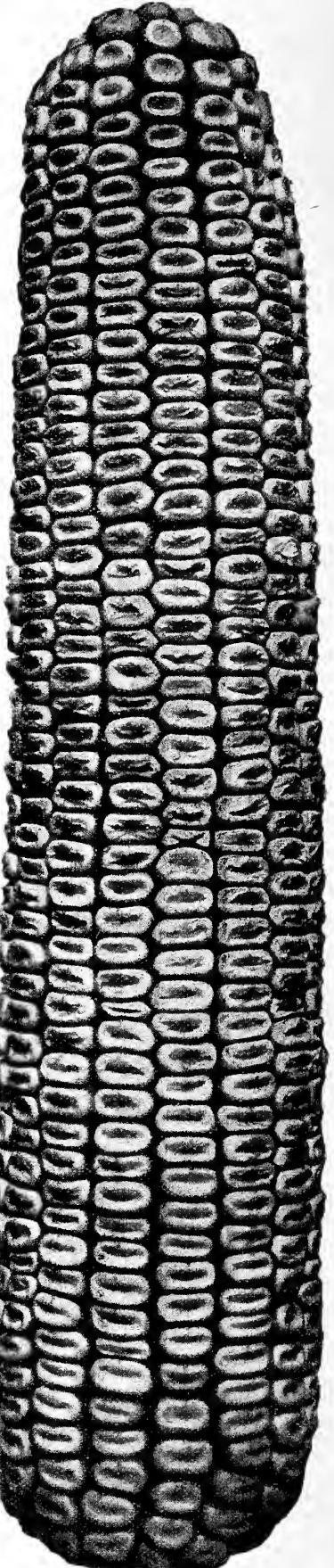
5th. Popcorn brings a very much higher price either shelled or on the ear than any other Corn and usually a ready market is easily found for any quantity, while in event of an inactive market, it can always be fed, and a farmer cannot raise better feed.

6th. Boys and girls can grow an acre or two of Popcorn and dispose of the product to their neighbors or to the merchant. There is usually a demand for this article and in this way considerable money can easily be earned. Why not plow up an acre or two and turn it over to the children. It will afford them pleasure and profit.

Plant at the rate of 6 to 8 quarts to the acre and closely. We have a very choice lot of this Popcorn carefully chosen and tested for seed purposes. Ask the dealer in your locality who handles our line of seeds for prices or if no merchant is convenient write us and we will give you the information.

Minnesota Ideal Corn.  
Reduced in Size.

Farmers and gardeners know that to sow reliable seeds is an important step toward better crop production. Northrup, King & Co.'s seeds are sold by dealers in almost every community in the Northwest. Names of nearby dealers who can supply you will be furnished on request.



Rustler White Dent Corn.



Minnesota State Experiment Station, the Birthplace of Minnesota No. 13 Corn.

## MINNESOTA NO. 13 CORN (UNIVERSITY)

**Extra Early Yellow Dent. (Corresponds to Wisconsin No. 8.)**

The commanding points of excellence which place Minnesota No. 13 Corn at the head of all yellow dent varieties for Northern planting are:

Its earliness,

Its enormous productiveness,

Its adaptability to a great variety of soils and climates.

To Prof. W. M. Hays, formerly agriculturist at the Minnesota State Experiment Station, recently Assistant Secretary of Agriculture, Washington, D. C., is due the honor of having originated this valuable extra early yellow dent Corn. Not only is it fully as early as any of the yellow dent Corns, but its record of heavy yields is such as to mark it as distinctly and undoubtedly the most profitable of all the yellow dent varieties. It was the remarkable productiveness of the Minnesota No. 13 Corn that led Prof. Hays to say: "The inherited quality of Corn to yield heavily or poorly, all comes in the ten pounds, more or less, of seed planted to the acre," and never was the truth of this statement better exemplified than in Minnesota No. 13. Much time and labor was expended by Prof. Hays and his staff of assistants in breeding and perfecting this strain. It was first disseminated as Minnesota No. 13 Corn, the intention being to later give it an appropriate name, but it has since become so widely and favorably known as Minnesota No. 13 that it must continue to be so known. The Directors of the Minnesota Experiment Station consider it the best yellow dent Corn for Minnesota, North and South Dakota and Wisconsin; other stations agree in this opinion. Mr. John S. Cole, Assistant Agriculturist at the Brookings, South Dakota Experiment Station, says: "At the county fair held here last week Mr. Geo. N. Kennard exhibited one bushel of Minnesota No. 13 Corn that I consider was the finest sample of yellow dent Corn that has ever been displayed here. Mr. Kennard's Corn was raised on clover sod and is estimated to yield from sixty to eighty bushels an acre."

The ears are of handsome appearance bearing 16 to 20 rows of bright, rich yellow, smooth, wedge-shaped kernels packed closely on the cob from butt to tip. The ears average eight inches in length and are borne usually two on a stalk. No Corn excels in quality the Minnesota No. 13; the cobs are well filled and the individual kernels, plump and of good color.

Minnesota No. 13 thoroughly matures in ninety days when planted on favorable soil and in a good location, but ninety-five to one hundred days places it out of danger under average conditions. A variety of Corn which will show such valuable characteristics is an acquisition on any farm, especially for planting in the Northwest where early frosts are common. It may be planted as late as the second week in June and yet safely mature a crop.

Another point to which particular attention should be directed is its adaptability to changes in soil and climate. Many varieties fail to do well when subjected to new conditions or require several years to become acclimatized. Minnesota No. 13 Corn, however, will thrive and produce abundantly on almost any soil and will do remarkably well under adverse conditions when other varieties would fail entirely.

The stalks grow to a height of seven feet and being leafy make excellent and very nutritious fodder.

We consider this a most valuable Corn to grow, as do also the various Experiment Stations we have mentioned. We refer also to those who have purchased their Corn of us in the past.

Our strain of Minnesota No. 13 Corn is especially desirable because of the care and attention which it has received. It has been carefully bred for trueness to type and heavy yield. Plant 6 to 8 lbs. per acre.

See page 83 for a full account of Seed Corn conditions this season.

## EARLY NORTHWESTERN OR SMOKY DENT

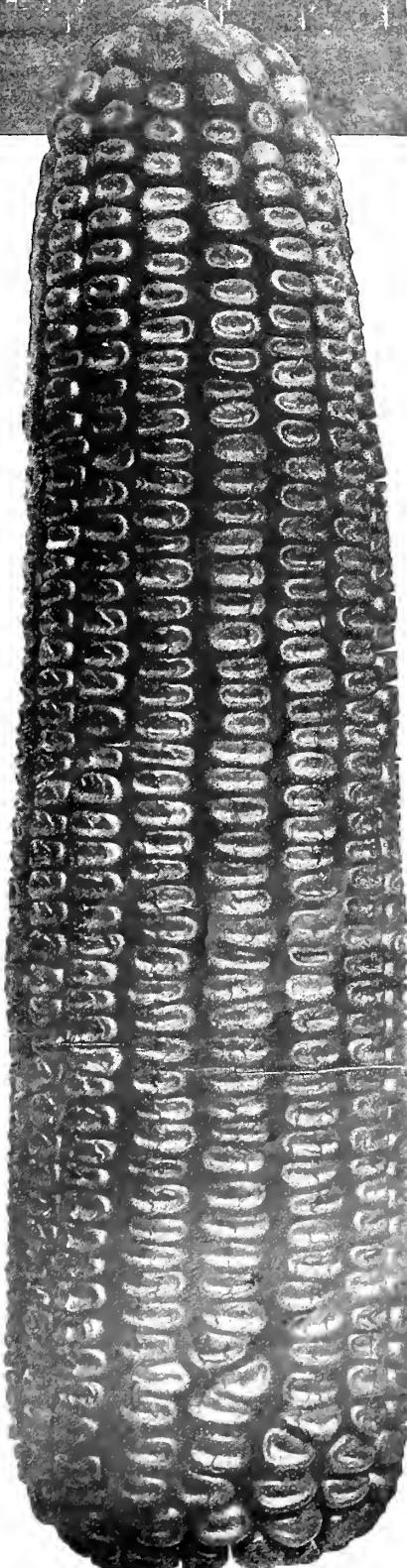
**The Earliest Dent Corn for the Northwest.**

This Corn is in a class by itself having red kernels with a yellowish cap, being a cross between a red flint and a yellow dent, but the type has become well established. To some the color is objectionable, but it must be taken into consideration that in most parts of North Dakota, Northern Minnesota, Northern Wisconsin and even Canada this is the only variety upon which the grower may depend to ripen and it is far better to have Corn, even though it is red in color, than to have no Corn at all. In North Dakota, northern Minnesota and in high altitudes this variety can be relied upon to mature before any other dent Corn, and, in fact, is the only sort to ripen in some seasons.

No other variety is as extensively grown in North Dakota as our Early Northwestern Dent, for the reason that season after season it successfully yields a good crop. When we offer seed it is Minnesota grown, every bushel being produced north of Minneapolis, under our personal supervision and from own selected seed stock. It is especially adapted for planting in the far north and our sales of this variety in the northern sections of North Dakota, Minnesota, Wisconsin, Montana and even Canada reach enormous proportions. Not only is it grown in the localities named but for late planting or replants it is especially desirable. It is extremely early and quickly adapts itself to new soil and climatic conditions. We have harvested 75 bushels to the acre and gathered seed from the crop in as many days, a strong tribute to its earliness and productiveness. As a rule, under ordinary Corn growing conditions, Northwestern Dent will mature in 85 to 90 days, and under more favorable soil, cultivation and weather will mature even earlier. The ears are of good size, from seven to ten inches long, and bear 10 to 14 rows of Corn. Under ordinary conditions the average height of stalk is 7 ft., 8 in.; average distance base of ear from ground, 3 ft., 5 in., thus admitting the use of a Corn harvester. Early Northwestern Dent may be sown in check rows or in drills. The latter method is in favor in many localities. The stalks, being smaller and shorter than some of the later sorts, may stand close in the row, thus contributing to a heavy yield. Notwithstanding the small ear, yields of seventy to eighty bushels per acre are not uncommon. This sort is also much grown for fodder and silo purposes on account of its earliness and adaptability. It will, of course, give best yields on a fairly rich soil.

Everyone remembers about the seed Corn crop failure of 1915. That season we were unable to harvest a single bushel of any variety of Corn fit for seed purposes. It would have resulted in the loss of our planting stock if we had not held in reserve sufficient seed Corn for two years' planting.

It is very doubtful at this writing as to what we will have to offer in Seed Corn during the spring of 1918. On page 83 we have endeavored to outline the serious situation confronting us. It will be well to arrange very early for your requirements for it is evident that there will not be nearly enough to plant a normal acreage.



An Average Ear of Minnesota No. 13 Yellow Dent Corn.

## EXTRA EARLY FLINT SEED CORN

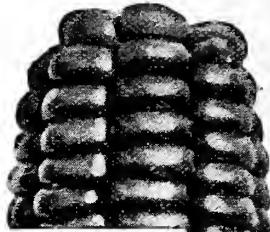
These are the earliest varieties grown and are especially adapted to Northern conditions. They make a rapid growth, mature quickly and under favorable conditions yield immensely. All are perfectly acclimated to our Northern conditions, which mean cool nights and short Summers. The "Squaw" types of the flint Corns are extremely early, but the ears grow so close to the ground that they cannot be harvested with a Corn harvester, hence are most valuable to "hog off" by turning stock into the fields and thus allow them to harvest the crop. The Mercer, Triumph, Longfellow, King Philip, and Smut Nose are also much used for replants where the first plantings fail, also for late fodder on early summer fallows—native sod, and the new comer on the frontier can grow fodder from late plantings cheaper than he can make hay, thus providing a grain ration for the stock. Plant 6 to 8 pounds per acre.

**Hogging Down Corn.** The practice of hogging down Corn is strongly recommended by the Iowa and several other state experiment stations. These four varieties of Flint Corn listed below are especially suited for the purpose. At the North Dakota Station in the Autumn of 1914, a poor crop of the Dent type, from  $2\frac{1}{2}$  acres, was pastured by 16 pigs which made a gain of 818 pounds, or \$51.00 in value—after subtracting the cost of some additional concentrates which were fed.

This gives a value of \$20.40 an acre for this poor Corn without the expense of harvesting it.

Green pasture is also very desirable to use with the Corn for the best results. See page 93 regarding the use of Rape.

The advantages of hogging down Corn are that it saves the labor of husking, cribbing, reloading and feeding; storage is saved as no crib space is needed; the crop is harvested without waste; it gives the most pork for the least expense.



**Squaw.** Extremely early and of very dwarf habit. We still grow this Corn for those who want it, but we urge the planting of North Dakota White Flint, or North Dakota Yellow Flint, in its place, as both of these varieties are fully as early, more productive, and make a much more vigorous growth. Average length of ears  $7\frac{1}{2}$  inches. Conditions on Seed Corn are so unsettled that it is impossible to quote prices at the time this page goes to press. Read page 83 if you are interested in the conditions which affect Seed Corn this season.

**Improved King Philip.** (Extra Early Red Flint.) An old-time New England favorite perfected by us. Extremely hardy. One of the best and most reliable early sorts. Ears 10 in. long; very early. See note above, under Squaw Corn and page 83, regarding 1917 Seed Corn crop.

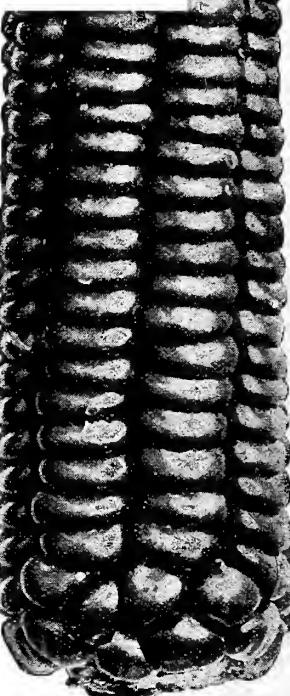
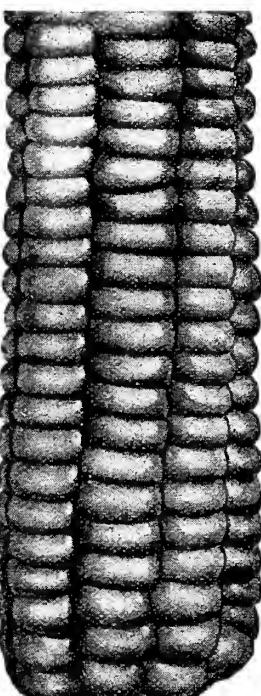
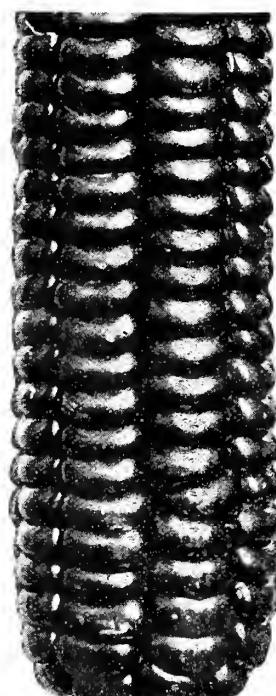
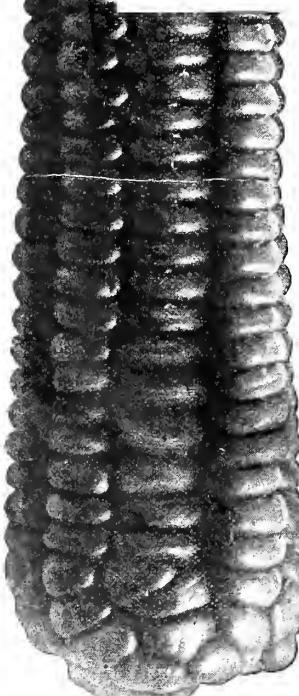
*Produce every bushel of grain and every pound of meat that it is possible to produce from your farm this year. Your country needs this kind of help from you.*

**North Dakota White Flint.** Resulting from a careful selection of Squaw Corn for many years. Very much better than the Squaw. Average height stalk 5 ft., average distance base of ear from ground  $1\frac{1}{2}$  ft. Average length of ear 8 inches. See note regarding crop, under Squaw Corn.

**North Dakota Yellow Flint. (Gehu)**

Resembles White Flint in earliness, habit of growth, etc., but the grain is yellow. Under normal conditions this variety will mature in 70 to 75 days. In localities where seasons are short and nights are cool it may be depended upon to give a crop. The yield must, of course, vary with conditions of soil, cultivation and season, but it has been no uncommon occurrence to secure a yield up to 75 bushels per acre. Gives an abundance of fodder of splendid quality. Average height stalk 5 ft., average distance base of ear from ground,  $1\frac{1}{2}$  ft. Average length of ear 8 inches. Conditions same as noted for other varieties above.

*Buy your seeds early this season. Plan crops carefully and utilize every available piece of ground. Conserve labor by sowing reliable seeds, tested for purity and germination.*

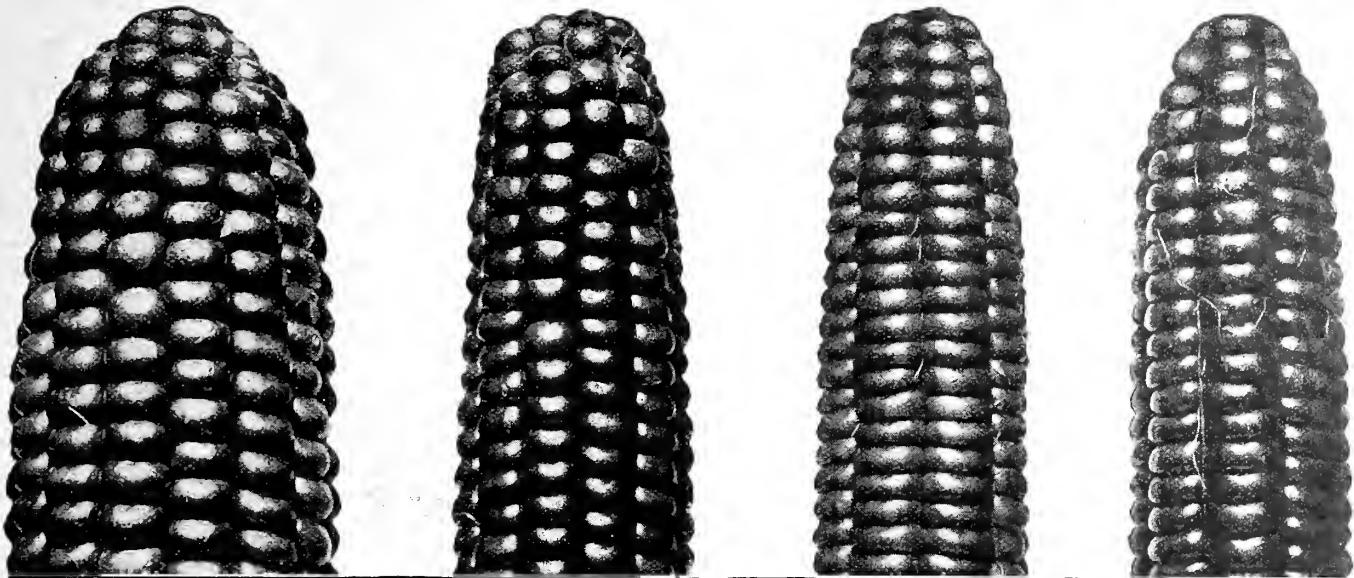


King Philip Flint Corn.

North Dakota Yellow Flint

North Dakota White Flint.

Squaw Flint Corn.



## FIELD CORN, EXTRA EARLY FLINT VARIETIES

### Northrup, King & Co.'s Triumph.

#### Extra Early Yellow Flint.

In the year 1899 we introduced this Corn as the largest eared and most productive of all the early flint varieties. Our customers know that when we send out a new variety that it is just what we claim for it, and so our sales were very gratifying. From every side comes hearty praise of this magnificent variety, more than sustaining every claim made for it.

Our Triumph Corn is a very early flint variety, very bright yellow in color, maturing in from 90 to 100 days from day of planting, according to soil and season. Ears average about 11 inches in length (about 3 inches longer than the Mercer) and are 14 to 16 rowed. Occasionally a 12 rowed ear is found; sometimes one with 20 rows. The kernels are large and the stalks are of good height. The ears average two to a stalk, growing well up so as to readily admit being cut by the harvester. The stalks grow very tall and leafy and make superior fodder. See page 83 for information about Seed Corn supply.

**Directions for Planting**—The habit of this Corn allows close planting. The largest crops of both Corn and fodder will be secured by planting in rows, dropping the kernels one at a time one foot apart. If it is desired to cultivate both ways, plant in hills about 3 feet 8 inches apart.

#### Drew Two Prizes.

*I bought one-fourth bushel of your Triumph Flint Corn last year and drew two prizes at the fair.*  
E. F. KING, Meeker Co., Minn.

#### Had A Good Crop.

*Your seeds have proved to be very satisfactory. The Early Triumph Flint Corn I bought last Spring had a good crop with nice long ears.*  
GILES BRONSON, Kittson Co., Minn.

### Northrup, King & Co.'s Mercer.

#### Extra Early Yellow Flint.

Early, prolific, good size ear and small cob. Has been grown in Northern Minnesota and North Dakota for fifteen years with great success and complete satisfaction. Average season of maturity 80 days. Very prolific, having yielded 164 bushels of good, sound ears to the acre; ears average 9 inches in length, 12 to 14 rowed, well filled out to the tips; a rich golden yellow color; has matured in 75 days from time of planting. Many stalks have two and sometimes three good ears. Stalks average about 5 feet in height and make excellent fodder. Very few suckers. Stocks of Seed Corn are very short. Read page 83.

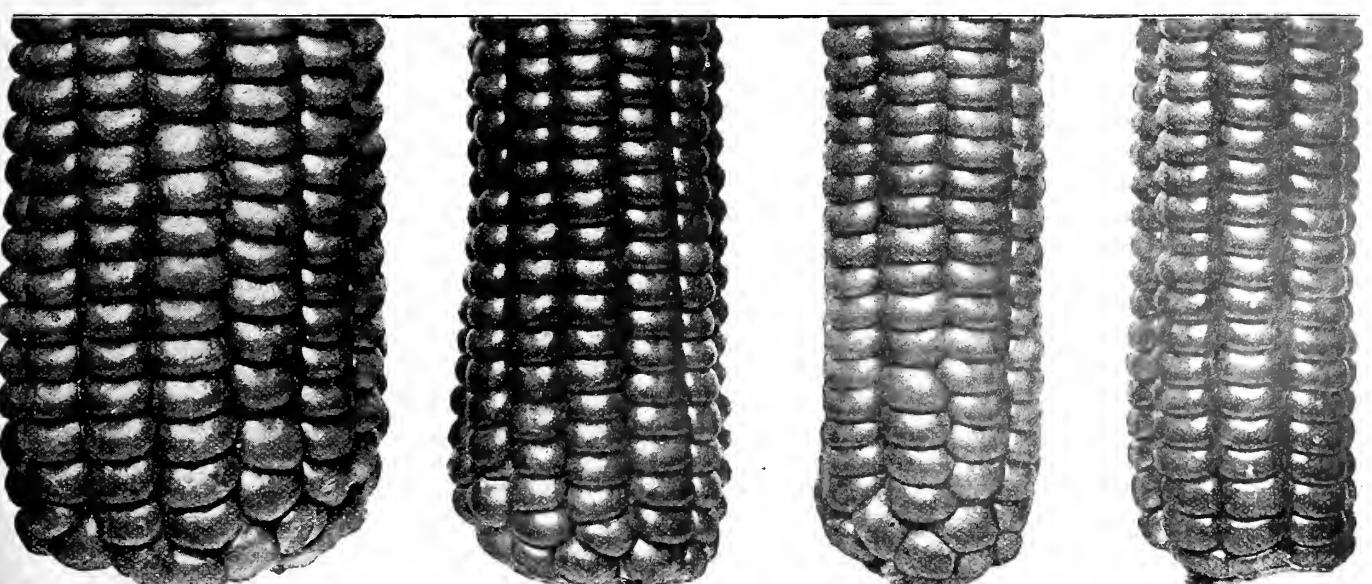
**Longfellow.** (8-row Yellow Flint.) A very early 8-rowed Corn of the Canada type; ears cylindrical, about 11 in. long; color, rich glossy yellow. The weight of Seed Corn is fully 60 lbs. Average height of stalk 7½ ft., average distance base of ear from ground, 3 ft. The Seed Corn situation is serious. Read the summary of conditions given on page 83.

**Smut Nose Flint.** (8-rowed.) A yellow flint Corn blazed with red at end of ear. Ears are large and round. This is a very early variety, and a great favorite in many localities. Our stock is very fine. Average length of ear 10 inches. Average height of stalk 7 ft. 6 in., average distance base of ear from ground, 2 ft. 11 in. See note under Squaw Corn on opposite page.

#### Matures Quickly.

*Your Triumph Flint Corn ought to be introduced extensively into the northern part of New England, as I believe it capable of outyielding the flints now in use. I shall use it for late planting as it matures so quickly and the rows can be planted close together.*

HUBERT D. GOODALE, Fairfield Co., Conn.



Northrup, King & Co.'s Triumph Flint.

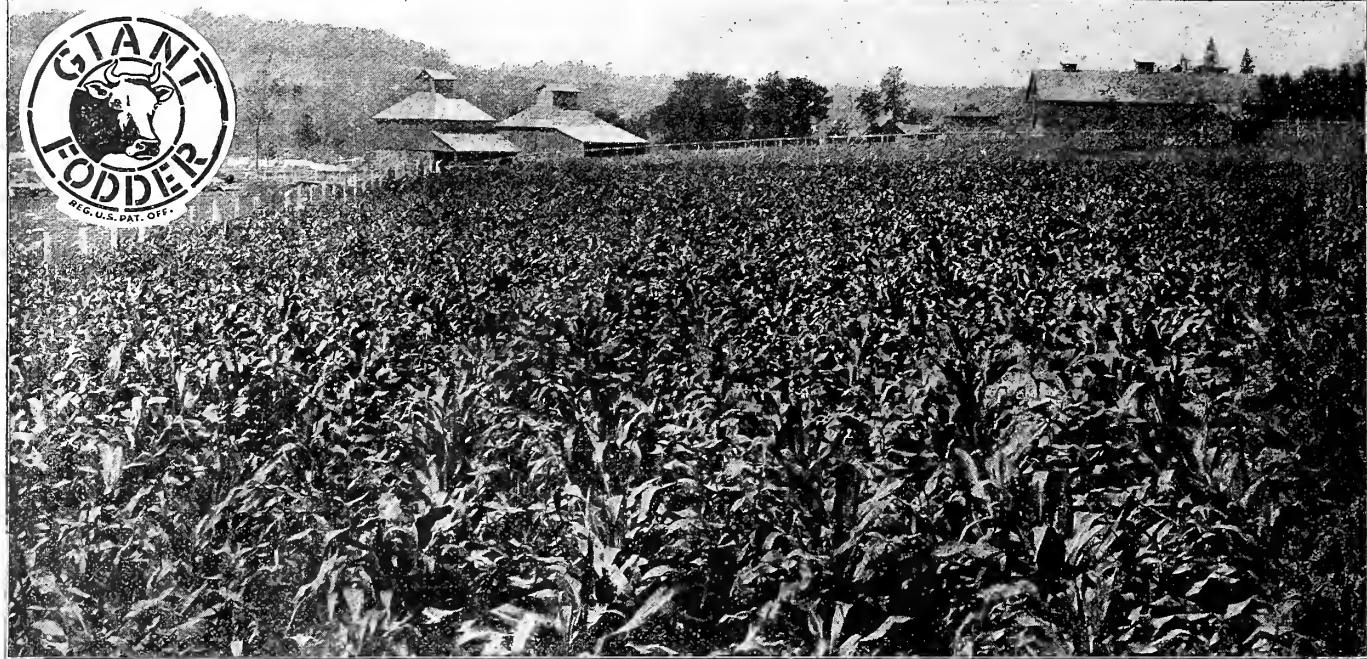
Northrup, King & Co.'s Mercer.

Longfellow Flint.

Smut Nose Flint.

## FODDER CORN

**D**RY Fodder Corn is probably the most satisfactory substitute for hay, according to the Minnesota Experiment Station. It should yield three to five tons of dry cured fodder per acre, which in feeding value is nearly equal to Timothy hay, ton for ton. Fodder Corn is a more profitable crop to grow than Timothy for fodder on account of its heavier yield. It can be fed to all classes of animals with fine results. Fodder Corn may be sown as late as July 1 with a reasonable assurance of getting a satisfactory return. This makes it fit in well as a catch crop after the other farm work is done. If the Fodder Corn is drilled in and Rape sown with it in the last cultivation, the mixture will furnish splendid summer pasture for sheep and pigs. By repeated sowings three acres of land should easily provide ample pasture for from fifteen to eighteen brood sows and litters, for the season.



A Field of Northrup, King & Co.'s Giant Fodder Corn. Note its leafy habit. This photograph was taken 60 days after planting.

### New Uses for Fodder Corn.

This excellent forage crop has been grown largely in the Corn growing sections because it produces more tons of feed an acre than any other grain or grass—15 tons an acre of green feed are often reported and occasionally 25 to 30 tons are produced on a single acre where conditions are most favorable for its development. Fodder Corn is now sown broadcast at the rate of two or three bushels an acre for supplemental pasture to be used when grass is short and often dry during the autumn months.

#### To Kill Quack Grass.

Quack grass is taking possession of many of the best farms in the country. In such cases Fodder Corn is one of the best cover crops to smother this pest by shading it from the sun. Plow the quack grass sod late in the Fall, which, with the freezing of the roots will greatly injure the plant. Cultivate with a spring tooth harrow every week during April and May. Plant Giant or Elephant Fodder Corn in drills, using one bushel of seed an acre and thus smother the quack grass and other weed pests.

### LARGE SOUTHERN VARIETIES.

#### Prices Subject to Market Changes.

The situation regarding Fodder Corn and the prices could not be foreseen at the time this book was printed. See top of column one of the next page for information on this subject.

### Northrup, King & Co.'s Giant Fodder Corn.

We believe that in most cases farmers can better afford to pay the price we ask for our Giant Fodder Corn than to plant other Southern varieties as a gift.

First, because in proportion to the quantity of leaf, this variety has a smaller stalk than any other variety. Second, while several other well known varieties of Fodder Corn often grow just as tall and even at times throw out leaves that are as large, the extraordinary productiveness of the Giant Fodder Corn arises from the closeness of the joints; and as leaves are thrown out from each joint, the result is an increased yield of fodder over any other variety. An extra pair of leaves on every stalk will more than pay the entire cost of seed on every acre of ground.

There are many reasons for considering Giant Fodder Corn the best and most economical; certainly it is by far the best of all the large growing varieties. The only objection that has ever been raised to the Giant, is that it grows very large, and is therefore harder to handle than the smaller sorts. We measured one stalk brought in by one of our customers, which was 14 feet in height; at the butt the stalk was two inches in diameter; half way up the stalk, 1 1/2 inches in diameter. It bore 29 pairs of long and very broad leaves. This would seem to afford ample proof of the enormous feeding value of this truly remarkable Corn.

Drill 1 to 1 1/2 bushels to the acre in rows about 3 1/2 feet apart. Five or six kernels to each foot of row. The seed of this variety is very large and pure white. The nearest dealer who handles our seed can quote you prices on any available stocks of our fodder corn.



### Varieties of Fodder Corn.

Fodder Corn may be divided into five classes, viz: Large Southern Varieties, Medium Dent Varieties, Early Dent Varieties, Flint Varieties and Sweet Varieties. Each of these has its friends. All may be successfully grown for fodder in almost any latitude. The merits of each class are briefly stated under their respective headings. If further information is desired, we shall be glad to supply it as far as it lies within our power, and will be pleased to make recommendations when desired. There is one point we want to impress on stockmen, dairymen and others using Fodder Corn, and that is to place your orders early. By so doing you secure the benefit of the lowest prevailing prices. You can test the seed and have Corn on hand that you know will grow when you are ready to plant.

The question of which is the **BEST** Fodder Corn will probably never be fully settled, any more than will be the question of the best breed of horses or cattle, so we try to present briefly and fairly the leading points of superiority claimed for each variety.

#### LARGE SOUTHERN VARIETIES.

**Northrup, King & Co.'s Red Cob Fodder Corn.** A tall growing Southern variety which is very popular all over the country. In Canada it seems to have the preference over any other sort, perhaps because it has been very widely grown and will produce a large tonnage in a short space of time. It grows very tall and very leafy and is exceeded in this respect only by our Giant Fodder Corn. The seed is white and grows on red cobs, thus giving it the name. Drill 1 1/4 bu. to the acre in rows 3 1/2 feet apart. Ask your dealer about stocks and prices.

**Southern White Fodder Corn.** This is a tall growing leafy variety possessing the general characteristics of our Giant, but is not so closely jointed and therefore bears a few less leaves, with a correspondingly smaller tonnage per acre. Get prices from your dealer and buy early.

**Booklet on Silage and Silos.** A treatise on growing, handling and feeding silage and instructions on how to build a silo. Contains much information of value and is well worth having. It will be sent free with orders if requested or will be mailed upon receipt of 5c in stamps.

#### Just the Thing.

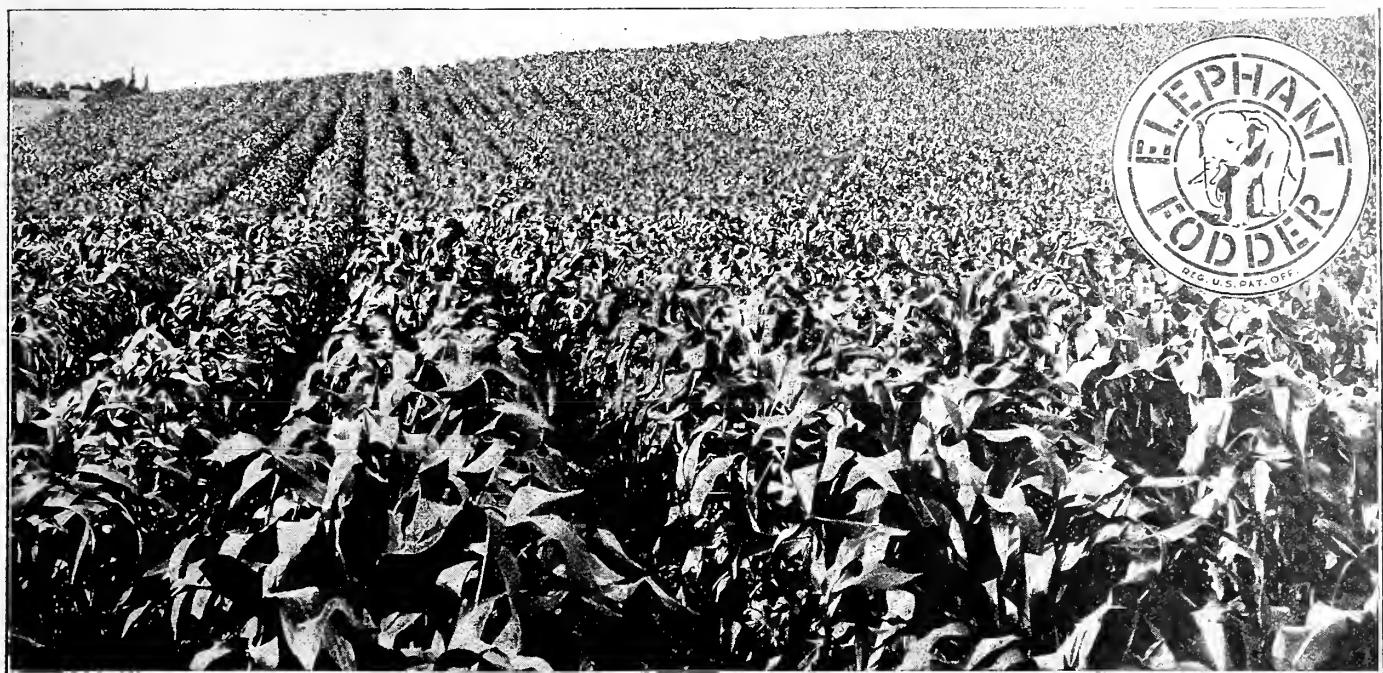
*Your Giant Fodder Corn is just the thing for this country. I always raised it when in South Dakota and was much pleased with it there. What I planted early grew eleven feet tall, and what I planted the 6th day of July grew to be seven or eight feet tall. The cattle eat every bit of it, so there is no waste, and I believe it will produce more feed to the acre than anything else one can raise. I planted five bushels of this Corn and I consider it safe to recommend it.*

*T. V. NASH, Douglas Co., Minn.*

#### Reg. U. S. Pat. Off.

The above means that the item to which it applies has been "Registered in the United States Patent Office." Giant as a trade mark to apply on Fodder Corn may be used by us exclusively. No other is genuine. When buying Giant Fodder Corn be sure the above trade mark is on the bag.

# FODDER CORN



A Field of Northrup, King &amp; Co.'s Elephant Fodder Corn.

## THE FODDER CORN SITUATION.

At the time this catalogue was being prepared it was quite evident that there was a great shortage in stock that would be available for fodder purposes. Crops in localities where this Corn is grown were damaged by unfavorable growing conditions, including early frosts which greatly curtailed the supply. It cannot be accurately stated now whether we shall have all the varieties named on this and the preceding page. It would be well for every purchaser to order his supply as early as possible from his local dealer who handles our Fodder Corn. If no merchant in your vicinity will supply, write us and we will advise the situation and state where the seed may be obtained, if at all. Prices will undoubtedly be higher than for many years.

## MEDIUM DENT FODDER CORN.

Many prefer for fodder smaller growing Corn than the large and later varieties, claiming for it the following advantages: 1st, that it is more readily handled by the Corn harvester; 2nd, that it matures earlier, and gives well formed ears; 3rd, that it is more easily cured; 4th, that the smaller stalks make finer and richer fodder; 5th, that the fodder is more easily handled in putting through the silage cutter, or fed long.

## Northrup, King & Co.'s Elephant Fodder

**Corn.** We believe this variety will best please the advocates of the type of Corn above referred to. It is tall growing, averaging 7 to 8 ft. It is very leafy. It has a small stalk. It will form, even in Northern Minnesota and in North Dakota, good sized ears, thus adding to its feeding value. It is low in price. Drill in rows about  $3\frac{1}{2}$  feet apart, and 60 lbs. per acre.

Elephant Fodder Corn has been registered in the United States Patent Office by us, as we have used this brand in connection with Fodder Corn for a great many years, in fact were the first to use it in this connection. Please note that it is contrary to law for any one to use the brand "Elephant" on Fodder Corn without our permission. Every bag will be marked, "Reg. U. S. Pat. Off." and show the above trade mark. See note at top of column.

## FLINT VARIETIES FOR FODDER.

Farmers of Maine, Vermont, New Hampshire and Massachusetts use White Flint Fodder varieties almost exclusively. There is absolutely no waste to this class of Corn, as the stalk is eaten greedily, and the feeding value is superior to everything but the Sweet Fodder or Early Dent varieties.

## Northrup, King & Co.'s White Flint Fodder

**Corn "State of Maine."** Our "State of Maine" Fodder is the tallest growing and best of the white flint sorts. We have great faith that it is to become a most popular variety in the Northwest, and we would like to have our customers give it a trial. Even the staunch friends of "Giant" and "Elephant" will find in the "State of Maine" something for them to "think about." Drill 1 bu. to the acre. Read information on the Fodder Corn situation and prices at top of page.

**Early Yellow Flint Fodder Corn.** We are selling more of this variety for fodder. Stalk, leaf, ear and all make splendid forage. Ask for prices early. See note at top of page.

All prices subject to market changes.

## SWEET VARIETIES FOR FODDER.

**Early Sweet Fodder Corn.** This makes capital fodder, and will mature ears in almost any part of the Northwest. The stalk is small, but sweet as honey and nothing can make better feed than this, fed ear and all. Drill  $1\frac{1}{2}$  to 2 bu. to the acre, in rows just far enough apart to admit cultivation. Ask your dealer for prices. See note on The Fodder Corn situation.

**Evergreen Sweet Fodder Corn.** All varieties of sweet corn possess very much more "sugar" than any feed sort, and this being the most important constituent, it necessarily follows that the corn holding this in greatest quantity has the greatest net value. Evergreen Sweet Fodder grows much taller than the Early Sweet Fodder and makes well formed, but not matured ears in almost any part of the Northwest. Drill  $1\frac{1}{2}$  to 2 bu. to the acre. Buy your seed early. Consult your dealer or write us.



Early Dent Corn Growing for Fodder.

## Northrup, King & Co.'s Sterling Silo Corn.

The building of silos throughout the Northwest, and more especially in Minnesota, Wisconsin and the Dakotas, has increased to a remarkable degree. More silos have been built in this part of the United States within the last few years than anytime previous.

This has resulted in a demand for silage best adapted to feeding cattle, sheep, and other live stock on the farm.

Corn is one of the most largely used of the various crops useful for silage, but it is not so thoroughly understood as it should be that its value depends—

First, upon the condition in which it is put into the silo, and

Second, the purpose for which it is to be fed.

Large quantities of Southern Corn are used for silage in sections where ears will not form. Where a large bulk of green feed is desired, as in the case of young stock or milch cows, this Corn may be profitably used, but the feeding value is not nearly so great, ton for ton, as in the more nearly ripened Corn. In other words, except (possibly) in such cases, all sections should use for general silage those varieties of Corn that will, in an average season, form well developed, if not perfectly matured ears.

Following this principle, we have selected for the various latitudes hereafter mentioned, leafy sorts, as tall growing as the section permits, which may be relied upon, in ordinary seasons, to form full sized ears, and, in long seasons, to mature the Corn itself if so desired. We therefore recommend to our customers varieties which should be planted for silage as follows:

Northrup, King & Co.'s Sterling Silo Corn No. 1, ripens north of parallel of latitude 47°, viz; Northern Minnesota and Northern North Dakota.

Northrup, King & Co.'s Sterling Silo Corn No. 2, between parallel 45° and 47°, viz; Central Minnesota, Northern Wisconsin, Southern North Dakota and Northern South Dakota.

Northrup, King & Co.'s Sterling Silo Corn No. 3, between parallels 43° and 45°, viz; Southern Minnesota, Southern Wisconsin, Southern South Dakota and Northern Iowa.

Northrup, King & Co.'s Sterling Silo Corn No. 4, south of the 43rd° parallel, viz; Southern Iowa, Nebraska, Kansas, Missouri, Illinois, Indiana, etc.

By the use of these fodder Corns, being careful to order the number recommended for the latitudes mentioned, the grower secures the important advantage of being able to put Corn into his silo, in the precise condition he may deem best for his uses.

**Booklet on Corn for the Northwest.** We have completed a new booklet full of profitable suggestions and reliable information on all phases of Corn growing in this territory. Sent to any address on receipt of 5c in stamps.

### PLANTING AND HARVESTING.

**Planting.** Generally speaking, the seed should be sown in drills 3 ft. 6 inches apart, using  $\frac{1}{4}$  to  $\frac{1}{2}$  bushel of seed per acre, depending not only on the soil, but also the purpose for which the silage is to be used.

Whenever less grain and more bulk is desired more seed may be planted to the acre, giving a greater amount of leaf and stalk but less ear Corn. For fattening beef cattle the opposite is true; the more ears produced the greater the fattening properties and for that reason less seed should be sown per acre, giving it a better opportunity to mature. In either case the tonnage per acre will be about the same. In the one case there will be more leaf and stalk and less ears and in the other instance the opposite, less stalk and leaf but more grain.

Also by the use of these varieties, if the grower wishes, it may be cut at an early stage of its growth and used as fodder. Later it may be put in the silo in any desired stage and if the season promises to be long enough, it may be allowed to ripen for grain if this be decided upon.

**Harvesting.** Corn intended for the silo should be harvested with a binder and the bundles allowed to remain in the field for a day or two, where they will lose a portion of the moisture. If the leaves become dry, water may be applied from a hose as the corn passes through the silage cutter. Corn that has been frosted and become partially dry in the field may also be treated in this manner, with water, and will make excellent silage.

**The Value of Proper Seed Stock.** The best seed obtainable costs more than crib Corn, but it is worth many times the difference to the grower. Our experience, of more than a quarter of a century, in growing Seed Corn places us in a position to determine which are the best varieties for grain as well as for silage. We offer the above varieties with entire confidence, believing the yields will not disappoint those of our customers who want seed Corn for special purposes.

Our sales of seed Corn are increasing many thousands of bushels each Normal year, which is conclusive evidence that the results obtained from the use of our highly selected and high bred stocks by planters in the Northwest are very satisfactory.

**Special Notice:** While we specialize in seeds especially adapted for Northern use, our trade in fodder, silage and Seed Corn all over the country is growing to such an extent that we are usually in a position to furnish Corn for any purpose or section, and we shall appreciate being given an opportunity to supply seed to our customers for special uses. Write and tell us for what particular purpose the seed is wanted and we will be glad to make recommendations.

### Prices.

Owing to the necessity of printing this catalogue early in the year, the edition being so large, no prices can be quoted here. Because of the almost total failure of the corn crop we may be unable to offer Silo Corn this year. Ask your dealer or write us when you decide to buy seed.

**Northrup, King & Co.'s Sterling Silo Corn No. 1.** Ask Your

**Northrup, King & Co.'s Sterling Silo Corn No. 2.** Dealer

**Northrup, King & Co.'s Sterling Silo Corn No. 3.** for Prices.

**Northrup, King & Co.'s Sterling Silo Corn No. 4.** Buy Early.

Ask for prices on Silo Corn in large quantities.

**Booklet on Silage and Silos.** A treatise on growing, handling and feeding silage and instructions on how to build a silo. It will be sent free with orders if requested or will be mailed upon receipt of 5c in stamps.



Cutting Silo Corn on the Minnesota Experiment Station Farm.

### HOW TO FILL THE SILO.

**Cutting the Corn.** The proper time to cut Corn for silo filling is when the kernels are well dented and almost mature. The lower leaves are turning brown at this time but the stalks are still green and contain a large amount of succulence.

If cut while the Corn is still immature and green, the silage will be sour and too laxative in effect, neither does it then have the feeding value that silage made from more matured corn has.

**Caution.** The blow pipe must be as nearly perpendicular as possible, so that the air will sift the material. If the pipe has much slant, the material will settle on the lower side and clog, the air passing over it instead of pushing it up.

**Adding Water.** If Corn for any reason becomes over ripe and dry, excellent silage can still be made from it by adding water while it is being cut into the silo, a half a barrel to each load of Corn.

Good silage can be made from frosted Corn in the same way. In order to get a perfect distribution of water in the silage, it should be run through the blower with the silage. This can be done by running a steady stream into the blower by means of a small hose.

**Packing the Silage.** Thoroughly packing by tramping improves the quality of the silage. This should be done thoroughly, close to the wall. The center will take care of itself.

The surface of the silage while the silo is being filled should be kept concave, that is, lower in the center than at the walls. This will prevent an air space occurring between the wall and the silage from settling later.

**Danger.** When the Corn is cut into the silo it soon begins to heat, which causes large quantities of carbonic acid gas to be given off. The gas being heavier than air collects in the silo and must be given a chance to flow out before any one is sent into the silo when work commences in the morning.

This may be done by opening a door at the surface of the silage. Running in fresh material will soon mix up the gas with fresh air and make it safe.

### Capacity of Silos.

### Silage for 200 Days.

Height	Diameter	Tons Capacity	No. of Animals to be fed	Lbs. fed per head per day	Tons silage required
24 feet	12 feet	54	15	25	32.5
28 feet	12 feet	64	15	30	45.0
28 feet	14 feet	86	15	35	67.5
30 feet	14 feet	92	20	30	60.0
32 feet	16 feet	120	20	35	70.0
34 feet	16 feet	128	20	40	80.0
32 feet	18 feet	162	25	35	87.5
34 feet	18 feet	172	25	40	100.0
36 feet	18 feet	182	30	35	105.0

Through your dealer you can usually obtain information about any item listed in this catalogue. Write us for the names of nearby merchants who handle our seeds and will supply you.

## DWARF ESSEX RAPE



Dwarf Essex Rape is one of the most valuable forage plants, its many uses being fully considered, that has ever been introduced in the United States, and we take pride in having been the first seed house to bring it prominently before the farmers of America.

Now that the sale of Rape Seed amounts to thousands of tons annually, it is interesting, by way of contrast, to look back to the year when we introduced it, and find that our sales for the season were less than 500 pounds.

Our customers can well understand that it gives us great pleasure to have lived to see our faith in Rape, for use in this country, amply justified by the outcome and that our effort to supply the very best quality of seed is recognized all over the United States.

Dwarf Essex Rape has been usually grown, until recent years, to furnish pasture for sheep and lambs, but it is now being found equally good in providing pasture for all kinds of stock.

Under average conditions a yield of from 10 to 20 tons or more of green forage per acre may be expected. According to a recent government bulletin, one acre of Rape with grain will fatten 20 wethers in two months. Ten hogs eat about one-third of an acre in the same time.

It is an annual, bearing a close resemblance in leaf and stalk to the Rutabaga, but both leaves and stalks are more numerous in the Rape plant, and of a taller habit of growth. It is a pasture plant which may be eaten off by any kind of live stock, but it is preeminently fitted to furnish pasture for sheep, cattle and swine.

It should be from eight to twelve inches high when stock is first turned

in and it ought to make growth enough to support at least ten sheep per acre during the growing period of the Rape crop. Rape makes a second growth from the standing roots when the livestock is removed, and may be repastured later. Successive sowings, made three or four weeks apart until July 1, will give a very satisfactory feeding crop throughout the entire Summer.

The Iowa Station recommends sowing 3 pounds of Rape seed per acre in the Corn field at the last cultivation or before, allowing hogs to pasture the Corn and Rape together. They have proved this to be a very profitable practice and it is being carried on in all parts of Iowa and in many adjoining states. This makes the cost of growing the Rape about 40¢ per acre and nets splendid returns.

**Culture.** Rape is best adapted to moist, rich soil in which there is plenty of humus. Slough lands are especially good. It grows best in cool, moist weather and the time for sowing depends upon when the crop is to be used. When wanted for pasture, allow 8 to 10 weeks for it to attain maximum growth. Sow 1 to 2 pounds of seed per acre in drills and cultivate, for a weed-cleaning crop. For broad-casting, use 5 pounds per acre on rich, weed-free soil so that the Rape will not be choked by weeds.

For continued hog pasture, sow Rape early and at successive intervals. It may well follow any grain crop and is always splendid to plow under for green manure.

Ask your dealer for prices on your requirements. Names of merchants in your vicinity handling our line sent on request.

## Northrup, King &amp; Co.'s ANNUAL HOG PASTURE MIXTURE

We most earnestly urge upon farmers all over the United States the real importance to them of using this Annual Hog Pasture Mixture of ours. It is called Annual Hog Pasture Mixture because when we commenced selling it many years ago it was intended primarily to supply pasture for swine. It has, however, proved of such great economic value, not only for swine but all other live stock, that its use is increasing at a rate that is truly amazing even to us who know how valuable a thing it is. It is made from many different grains and forage plants, the majority of which grow again as fast as fed down.

From every part of the country come to us letters telling the result of its use, and if we had room to print these letters, there is not one thoughtful farmer who reads this but would be so thoroughly impressed with the fact that he too should sow this mixture, that he would not fail to secure some of this seed.

No matter how much feed you have for your hogs, sheep and cows you can profitably grow our Annual Hog Pasture Mixture. The results will please you because this mixture furnishes the variety they need. Read Mr. John Pfiffer's letter on this point. With a large apple orchard into which to turn his hogs for the wind falls, with ample pasture of Red Clover, Alfalfa, Timothy and Kentucky Blue Grass, he finds it very profitable to grow this mixture and he states the reasons. Another advantage in growing this mixture is that, sown in the Spring, it comes in when other pasture is apt to be at its worst, and continues green and bountiful all through the season until Winter. This makes it valuable, too, as a catch crop, for it may be sown as late as the middle of August. We have customers who grow as much as 20 acres of this mixture, but its great general use is in small pastures or paddocks near the barns where the stock may be handily turned in at any time. Those desiring to raise an increased number of sheep and swine should note the fact that its use decreases the cost of fencing, as an acre yields four or five times as much as most pasture. One more point, keep it fed down. It is best when young and tender and springs up again with amazing rapidity.

It is especially valuable as a crop to grow on feeding lots and cleared portions of the barn-yards. Here it will produce immense quantities of feed

rather than a dense growth of weeds, the usual crop for such lands about the farmstead.

Plow bare patches in the hog lots and sow Annual Hog Pasture Mixture where it will soon cover the soil with a heavy growth of green feed. Make all these waste patches about the barn-yards productive with sowings of Hog Pasture Mixture. Make the soil rich with stable manure; sow about corn planting time as the Mixture contains some seeds that require warm weather to germinate them and the plants may be injured by freezing if sown too early.

The quantity of Annual Hog Pasture Mixture required varies according to conditions of soil and climate, but as a rule we recommend sowing 50 pounds to the acre. Prices on this and other items can be obtained through your local dealer. If he will not supply you, write to us.

Mr. John Pfiffer's Letter.

*The hogs, pigs and calves on my farm have the run of a large apple orchard which is seeded to a variety of grasses, including Clover, Alfalfa, Blue Grass, Timothy, etc. These supplemented with the windfalls from the fruit trees make a fine pasture. However, I believe that best results are obtained from the use of the largest possible variety of forage plants in the pasture. I sowed an acre to your Annual Hog Pasture Mixture. It made a wonderful growth and 25 tons of feed is understating the yield that acre gave me. I kept 50 pigs on it while they were weaned from their mothers. It grew faster than they could eat it. The ewes were turned on the Hog Pasture Mixture after milking to keep it down. It makes a splendid all summer pasture for all kinds of live stock.* JOHN PFIFFER, Minn.

Used It Five Seasons.

*The Annual Hog Pasture Mixture purchased from you has been so satisfactory I think you should know it. This is the fifth season I have sown it and consider it the best of anything I have seen. During the past five years I have purchased several hundred pounds of your Sterling Timothy, Medium Red and Alsike Clover and Alfalfa, and cannot speak too highly of the results. Our neighbors who have always believed in the average run of seed have pronounced it the finest they have ever seen and some have been using it on account of our good crops.*

F. L. DAGGETT, Minn.

## PERMANENT HOG PASTURE MIXTURE

So great has been the success of Northrup, King & Co.'s Annual Hog Pasture Mixture, that we now offer a permanent mixture which, once sown, will remain for years without re-seeding. This mixture is offered with the confidence that it will give stock raisers entire satisfaction. It has already been thoroughly tested and proved of great value for all kinds of stock. We do not recommend this to entirely displace our Annual Hog Pasture Mixture, as it will not produce so much in bulk, nor make new growth so quick-

ly after pasturing. It is, however, a substantial mixture which will prove a profitable investment to any farmer and, we are safe in saying, cannot be equaled anywhere. Not only is it suitable for hogs, but sheep, cows and horses relish this rich pasture. You cannot afford to be without it. Order both kinds to keep your stock well supplied with abundant feed. Sow from 20 to 25 lbs. of seed an acre. A large number of merchants sell our Hog Pasture Seed and can obtain it readily for their customers. If your local dealer will not obtain it for you, write directly to us.

# FORAGE AND SOILING CROPS.

## SORGHUM OR SUGAR CANE.

Prices subject to market fluctuations.

Note the wide range of uses to which Sorghum may be put, and its great value in each case.

As a soiling crop, Sorghum will always prove of great value, since at least two crops can be obtained from one sowing. Milch cows are exceptionally fond of Sorghum. It is excellent for milk production and a given area furnishes a large quantity of succulent food. An acre of Sorghum yielding 15 tons of green forage would feed 50 head of stock for 10 days. It should be fed sparingly at first, to avoid bloats.

As a pasture crop for sheep and swine it has no superior. When grazed down it will quickly spring up again, thus a large amount of pasture may be obtained at a season when forage is scarce. Cattle should be accustomed to it gradually. Sorghum pasture is said to enable hogs to maintain a steady, profitable growth through the Summer. Mixtures of Sorghum with Barley or Oats have been found to give heavier yields than Sorghum alone. As a fodder crop it furnishes an enormous amount of feed. Sorghum outyields Fodder Corn, producing a richer and more nutritious feed of greater value. Thus it will be seen that utilized as a pasture, as a soiling and fodder crop, it may be made to furnish feed nearly the whole year round.

**Minnesota Sorghum.** Early Amber Cane. This is the earliest, richest and altogether the best sort for Northern latitudes, and is the only variety which can be relied upon for sugar or syrup in Minnesota. Crop practically a failure. May have a very limited amount. Ask for prices.

**Southern Cane.** This variety does not mature so rapidly as the Minnesota Sorghum but the yield is very much heavier. When Sorghum is grown for fodder only, the Southern Cane will give the greatest tonnage and is usually grown on that account by dairymen, to feed their milch cows. It is also desirable when grown as a pasture plant for sheep, hogs or cattle. All kinds of stock eat it readily. Southern Cane is not suitable for making syrup when grown in the North, but for feeding purposes is splendid. See cultural directions above. It can be sown at the rate of 50 to 60 lbs. per acre. Ask for prices.

### Sudan Grass.

This grass was introduced by the Department of Agriculture and it has been tested at several experiment stations. Prof. A. C. Arny of the Minnesota Experiment Station writes us as follows:

We have experimented with Sudan grass quite extensively for the past two years. As far as I can see at the present time, it looks as though Sudan grass could well take the place of Millet or any other annual hay crop. If sown about May first at the rate of thirty-five to forty pounds per acre, it may be cut some time in July just before heading out. This gives time for a second growth to reach the stage where it can be used for pasture or cut for hay. From the fact that Sudan grass may be used to produce two crops per year from a single seeding, it looks to me as though it should be preferable to Millet.

This does not mean that Sudan Grass will replace Timothy or Clover but will doubtless compete with Millet wherever that is now grown.

Sudan Grass belongs to the Sorghum family. It is an annual, lacking underground root stalks. Two cuttings can be obtained under favorable conditions, and growers near Minneapolis report two big crops last season. The yields vary from 1 to 8 tons of cured hay per acre.

Sudan Grass when seeded broadcast or in drills averages about 3 to 5 feet in height and has stems a little smaller than a lead pencil, being about three-sixteenths of an inch in diameter. If grown in rows and cultivated it reaches a height of 5 to 9 feet, and the stems are larger than usual, being about one-fourth of an inch in diameter. The panicle is loose and open.

Sow Sudan Grass after the soil has become warm, about corn-planting time. It may be drilled from one-half to one inch deep. For seed production, sow 6 lbs. per acre in rows and cultivate. When broadcast, sow 16 to 24 lbs per acre. It may be cut with a mower or binder.

Ask your dealer for prices or write us if he will not supply you.

**Cow Peas. Northern Grown.** Furnishes good pasture for cattle, sheep and swine, may be used for soiling or hay, but for the two purposes last named it is a little difficult to handle. It has great power to enrich the land by putting in nitrogen drawn from the air, and since it may be grown as a catch crop, an immense future lies before it in enriching the soils. When pastured by cattle, the early pods should be well formed before turning in the stock. When pastured by swine, the crop should be allowed to get nearly ripe. When plowed under as a fertilizer, the plowing should be done when the plants are in full bloom.

Cow Peas are usually sown broadcast at the rate of four to six pecks per acre. When drilled, two to three pecks are usually sufficient when the rows are far enough apart to permit cultivation.

Your dealer can give you latest price quotations throughout the season on Cow Peas and all other items listed in this catalogue.

**Soy or Soja Beans. Northern Grown.** Valuable for hay or pasture, also green manure. They resemble the navy bean in general appearance. Like clover they are great soil enrichers, gathering in nitrogen from the air and storing it in the soil. Many tests show that they may be grown wherever Corn will ripen. The Northern grown Beans are harder and mature earlier than the Southern ones. They should be planted after Corn in rows 2½ feet apart with 6 to 8 plants to the foot of row if grown for the beans, requiring about one-half bushel of seed per acre. When grown for hay, it is preferable to plant the rows closer together or sow broadcast at the rate of 40 lbs. per acre. If your dealer does not have our Soy Beans he can obtain them from us in ample time if you place your order early, before stocks are sold out. Ask him for prices.

**Sunflower, Mammoth Russian.** Sunflowers are especially useful in the poultry run as the large leaves furnish shade for the young chicks, also the seeds make a good addition to the poultry ration. They



Sorghum, Grown For Pasture and Soiling.

are very rich in oil and protein and are splendid to feed during the moulting period and winter months. They are also valuable for hogs. Sow the seed in rows far enough apart to admit of cultivation, 2 to 3 pounds will plant an acre. The plants will grow from 6 to 10 feet high and will be literally covered with large heads well filled with seed. Obtain samples and prices from the nearest dealer who handles our seeds. Name on request.

**Thousand Headed Kale.** This is a variety of cabbage. The plant attains a height of three to four feet. The stem is covered with leaves which form small heads. Animals, especially sheep, eat it greedily. It grows well on most any land and is hardy. The seeds may be either drilled or broadcasted, but we think drilling is better. If drilled, plant in rows 26 to 30 inches apart, so that plants may be thinned out so as to stand 16 to 18 inches apart in the rows. In drilling use ¾ to 1 pound of seed to the acre. In broadcasting 1½ pounds are required. Prices by mail, postpaid, large pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.50. By express or freight, at purchaser's expense, 10lbs., \$1.00.

**Australian Salt Bush.** Yields large crops of excellent fodder and silage. Our grower of seed writes as follows: "Salt Bush should not be planted on foul ground or where it cannot be given tillage to start it. After it is established, it is a strong grower and will thrive in poor soil, alkali, heat and drought to an astonishing degree. I have produced nearly forty tons per acre of green forage on good wheat ground. Provide a good seed bed, then drill the seed in thinly, four feet apart, covering slightly and firming down. Keep the weeds out until it gets a start. For dairy pasture it cannot be excelled. In the North, Salt Bush is an annual; farther south, a perennial. Two pounds of seed will plant an acre. The value of Salt Bush has never been appreciated and should be given more attention by farmers everywhere." Pkt., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

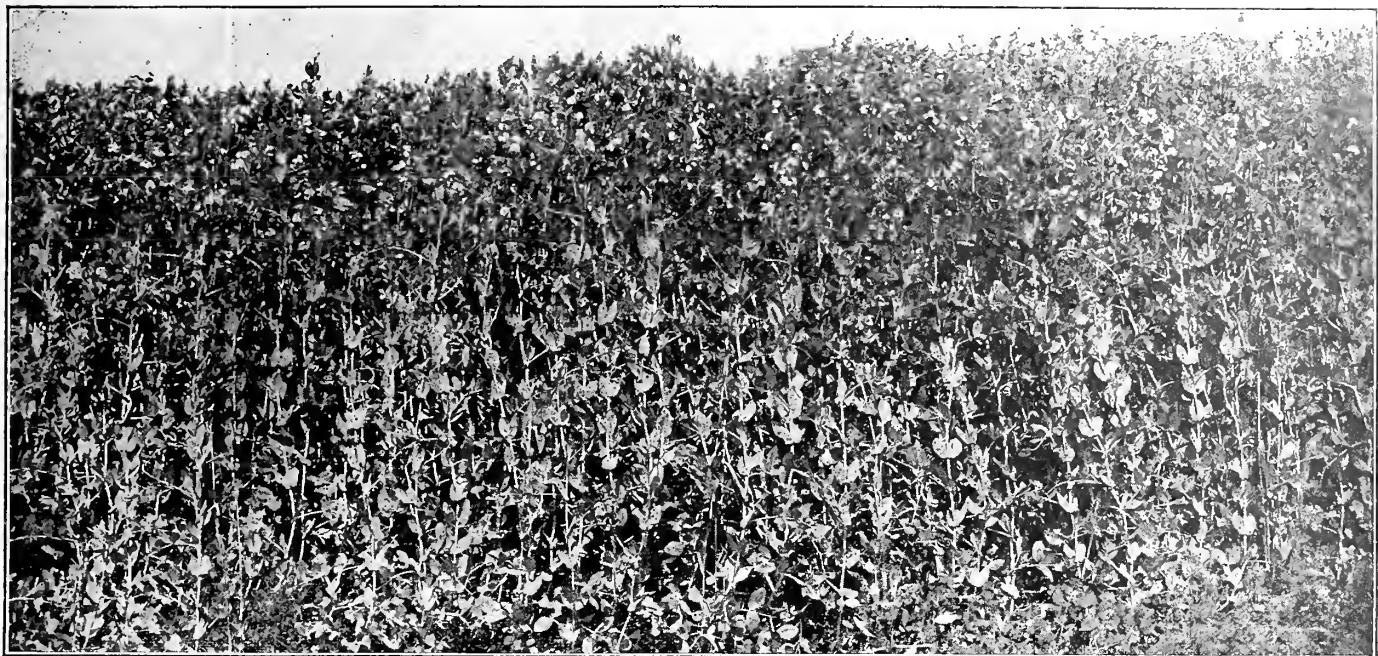
**Peanuts, Iverson's Improved.** This variety combines earliness, large size and prolificness, yielding fewer imperfect pods and less "pops" than any other sort. The vines are a valuable feed for horses, cattle and sheep. An acre will produce from one to two tons of vines. The nuts are relished by nearly everyone. Peanuts do best on a light sandy soil, but any open soil will do. The ground should be plowed deeply and thoroughly harrowed. Careful tillage is important. Seed peanuts should be carefully hulled to prevent breaking the skin on the kernels. They should be planted in rows two and a half to three feet apart and ten to twelve inches apart in a row. Cover with about two inches of earth. When they are matured, pull them up and expose to the sun for a few days. Pkt., 10c; lb., 40c, postpaid. Write for special price in large quantities.

**Peanuts, Small Early Spanish.** This variety, although small, is best suited for growing in the North, being earlier than any other sort. It yields enormously, pods that are solid and unusually well filled. As a confection it is sweeter and more delicious than the larger varieties. Seeds should be planted in drills, 3 feet apart, 8 to 10 inches apart in the row. Plant is of upright, bushy growth, making cultivation easy.

Prices, packet, 5c; pound, 40c, postpaid.

**Feterita.** A wonderful new grain which has attracted considerable favorable attention in Kansas, Missouri, and Oklahoma. It belongs to the Sorghum family. It was introduced from Africa by the United States Department of Agriculture. The advantages claimed for Feterita are its drought resisting qualities, its heavy yield, its earliness, its stooling propensities and its freedom from insect pests. It is of medium height and about equal to Kaffir Corn in feeding value. Feterita successfully withstood dry weather in Kansas and nearby states during 1913 and yielded under these unfavorable conditions, 35 bushels per acre and more. Order early through your dealer. He can supply samples and latest prices. If you cannot obtain from him what you want, write directly to us.

**Kaffir Corn.** Grows 4 to 5 feet high. The stem or stalk bears numerous wide leaves. The stalks are brittle and juicy, not hardening like other varieties of sorghum. It makes excellent fodder, either green or dry, which is highly relished by cattle and all kinds of stock. The seed crop is also heavy, sometimes 50 to 60 bushels to the acre. For grain, sow in rows 3 feet apart, 3 to 5 pounds of seed to the acre. For fodder, sow ¼ to 1 bushel either broadcast or in drills. Get the latest price from your dealer or write to us if he will not supply you with our seed.



A Field of Canada Field Peas. Four feet high at time of blossoming.

## FIELD PEAS

**PRICES.** For prices on Field Peas ask the dealer who sells Northrup, King & Co.'s seeds, or write to us. Prices on field and grass seeds subject to market changes.

"Peas could be made to bring more nitrogen to the soils of this country every year than is now purchased annually by the farmers at the cost of millions."—Year book of the U. S. Department of Agriculture.

The above statement, coming as it does from a reliable source, gives the progressive farmers of this great Northwest something to think about. Grain has been grown year after year on many farms, sapping the life and fertility of the soil. Here is a crop which is not only profitable but will return to the land the much needed nitrogen. Peas are second only to Clover in their soil enriching properties and can be grown under almost any condition of soil or climate. There is always a ready market for Peas, or they can be profitably ground and fed to stock. The vines make rich, nutritious hay. If fed to milch cows, when green they increase the flow of milk. Peas are a paying crop and can be profitably planted in many ways. First. When sown alone about three bushels are required to the acre. They can be matured and threshed when dry. The yield will vary from 30 to 60 bushels an acre.

Second. Peas and Oats are frequently sown together, using  $1\frac{1}{2}$  bushels of peas and 2 bushels of Oats an acre. By so doing a double crop can be secured. They can be threshed at one time and readily separated in cleaning.

Third. They can be sown alone or with Oats and fed green. It is surprising the amount of fodder which is produced in this way. If sown together, sow Peas first and plow under four inches; then drill in the Oats.

Fourth. For plowing under when Peas and Oats are sown together and each are 'in milk,' they are nearly equal in value to Clover, used in the same way, to enrich the soil.

**Golden Vine Field Peas.** strain is especially desirable on account of the heavy yield. On good soil it gives a very heavy crop and yields fairly well on land so poor as to be otherwise non-productive.

**Canada Field Peas, Yellow.** Peas and needs no special description. This variety is extensively grown in Canada, Wisconsin and other Pea growing sections, and has a large sale, not only for agricultural purposes, but for use in soups. It is also fine for pigeons and poultry.

**Canada Field Peas, Green.** Height of vine  $3\frac{1}{2}$  to 4 ft. Of the same general character as Canada Yellow Field Peas. Used for the same purposes, but the seed is green in color instead of yellow.

**Scotch Peas.** Grown largely for early green forage. Foliage is more rank and abundant than Canada Peas. Sow one to one and a half bushels per acre with Oats for support.

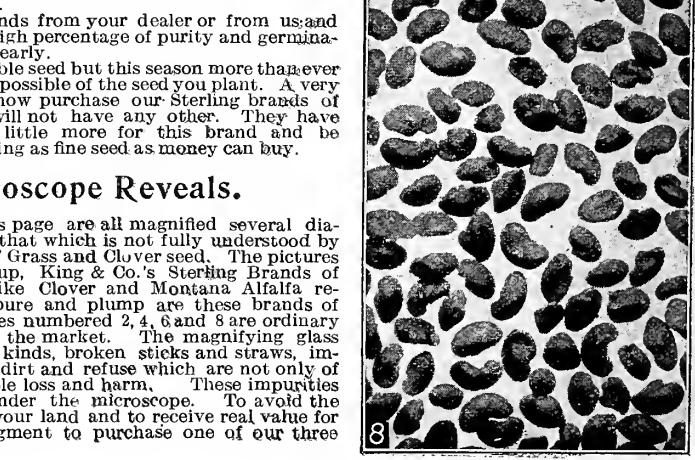
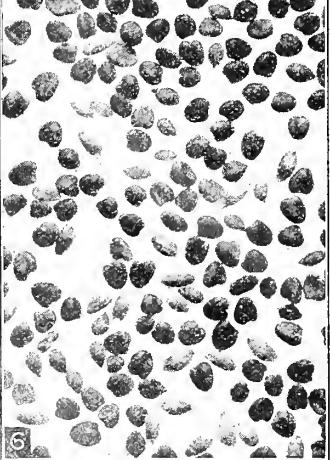
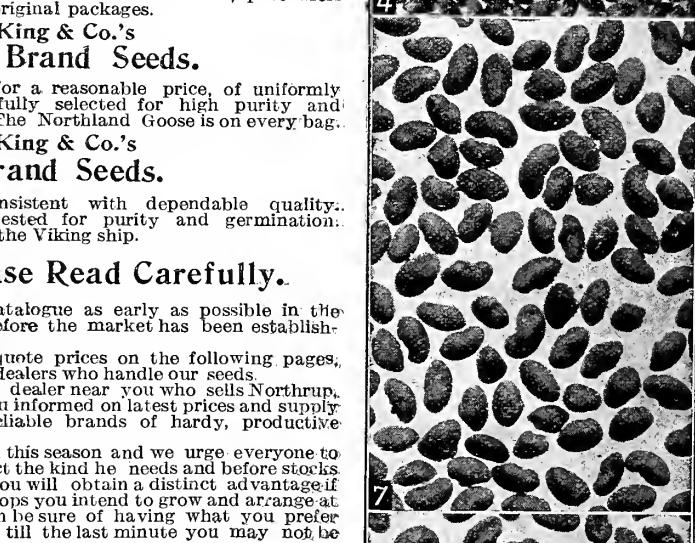
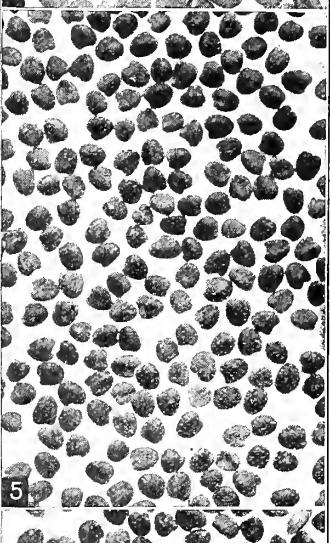
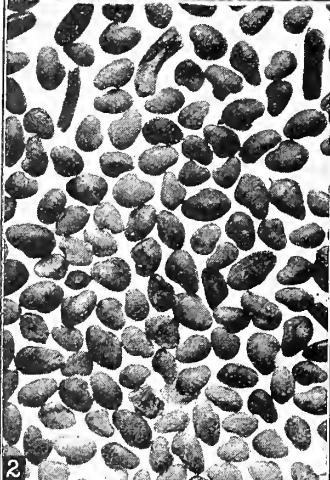
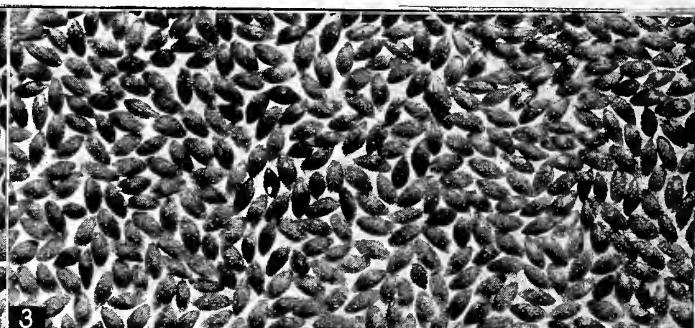
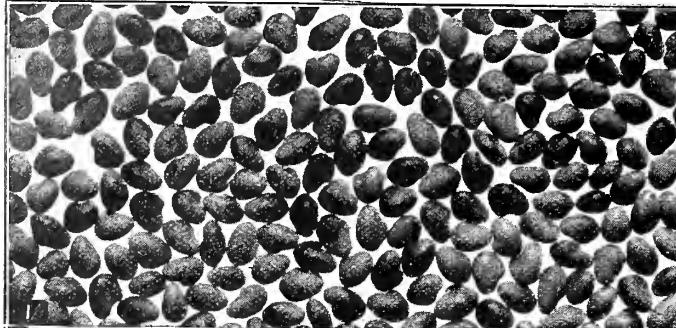
## VETCH

**Sand or Winter Vetch.** (*Vicia Villosa*) Sometimes called Hairy Vetch. This is a very valuable forage plant and is rapidly becoming more popular each year as the farmers of this country are learning more of its great value. It is very hardy, is valuable as a winter cover crop to prevent leaching, and for forage and fertilizing purposes. It is an annual, but re-sows itself and will come up year after year on the same ground. It succeeds well on nearly all soils and thrives surprisingly on poor, light land and will endure extremes of drought, heat and cold. It improves the soil, being a great nitrogen gatherer. The roots bear innumerable nodules of nitrogen-gathering bacteria. These take the nitrogen from the air and restore it to the soil where it is so much needed. It belongs to the Pea family, but the vines are much longer and the foliage is more abundant. The vines in the illustration were from the second crop and measure five feet and seven inches in length. These plants were grown within a few miles of Minneapolis, on the farm of Mr. James J. Hill. It may be sown either in the Spring or Fall with about half a bushel of Rye or Oats for support. It grows rapidly and is particularly valuable in sections where Clover does not thrive. In the North it remains green all Winter under the snow and it is invaluable for early pasturing or soil-ing. The Department of Agriculture estimates the value of an acre of this Vetch plowed under equal to commercial fertilizer at the rate of from \$16 to \$40 an acre. When sown in August or September it covers the ground before frost and prevents leaching of the soil during the Winter and Spring. When sown in April or May it can be cut in July, the second growth affording excellent pasture during the Summer. The yield of green fodder is from twelve to twenty tons an acre. This may seem to be an exaggerated statement but when the amazing stooling propensities of this plant are taken into consideration the yield is readily accounted for. As many as twenty long vines spring from each root. When raised for hay it should be left standing until some seeds have become well formed. We especially urge farmers of the Northwest to try Sand or Winter Vetch. Not only does it produce an enormous amount of very valuable feed, but it at the same time restores to the soil a great amount of fertility which is so much needed. It will not disappoint. Plant at least an acre this season. 50 to 60 pounds of seed required to the acre. Get the latest price quotations from the Northrup, King & Co. dealer. Name on request.

**Spring Vetch.** Known also as Tares, English Winter Vetch, Oregon Winter Vetch or Common Vetch. Used for the same purpose as the Sand Vetch but must be planted in the Spring whenever the Winters are severe as this variety is not so hardy as Hairy Vetch. It succeeds wherever Canada Field Peas thrive. If sown alone, use 60 lbs. of Vetch per acre and if with Oats, 60 lbs. of Vetch and 40 lbs. of Oats are usually seeded.

Spring Vetch thrives in a well-drained soil, doing best in loams or sandy loams though excellent crops are grown both on sandy and gravelly soils. On poor soils special care should be taken to provide thorough inoculation. See page 98 for ("Nitragin.") It is adapted to a variety of uses such as hay, green feed, pasture and green manure. Any dealer who handles Northrup, King & Co.'s seeds can quote latest prices and supply you with Vetch seed or obtain it from us as long as our stock lasts. If your dealer will not supply you, write directly to us. Prices on field seeds subject to market changes. See page 98 for "Nitragin."

Winter Vetch, Second growth.  
5 ft., 7 in. long.



## THREE RELIABLE BRANDS And What They Mean to You.

The three brands illustrated here were adopted for the protection of our customers. It will be to your interest to know them. Wherever you see a bag branded with one of these designs you can rely upon the quality of seed it contains, whether it is Clover, Timothy, Alfalfa, Blue Grass or any other variety.

These brands are being advertised throughout the Great Northwest and people are demanding grass and field seeds bearing one of these trademarks.

Why run the risk of sowing unknown seed of doubtful purity and germination when you can procure such dependable seeds as these?

Following is a brief summary of what these three brands stand for:

### Northrup, King & Co.'s Sterling Brand Seeds.

For those who want the best. Unexcelled for purity, germination, plumpness and color. Look for the Sterling trademark.

Every bag of Grass or Clover seed put out by us under the name Sterling, will be sold only in our sealed bags—every package bearing our name, our trade mark, and sealed at the top with a metal seal. None other is genuine. As the contents of a bag cannot be identified once the seal is broken, purchasers should always insist on getting our original packages.

### Northrup, King & Co.'s Northland Brand Seeds.

The greatest value for a reasonable price, of uniformly superior quality, carefully selected for high purity and strong germination. The Northland Goose is on every bag.

### Northrup, King & Co.'s Viking Brand Seeds.

Lowest in price, consistent with dependable quality. Strictly recleaned and tested for purity and germination. Every bag branded with the Viking ship.

### Our Prices. Please Read Carefully.

In order that you may have this catalogue as early as possible in the season we are preparing this part before the market has been established on Grass and Clover seeds.

For this reason we are unable to quote prices on the following pages, but all items will be offered through dealers who handle our seeds.

It is well to keep in touch with the dealer near you who sells Northrup, King & Co.'s seeds. He can keep you informed on latest prices and supply you with your selection of our reliable brands of hardy, productive varieties.

There is a general shortage of seed this season and we urge everyone to order early while it is possible to select the kind he needs and before stocks are depleted or sold out entirely. You will obtain a distinct advantage if you plan as soon as possible all the crops you intend to grow and arrange at once for the best seed. Thus you can be sure of having what you prefer to use at planting time. If you wait till the last minute you may not be able to get any seed of some varieties.

Get samples of our dependable brands from your dealer or from us and examine them carefully. Note the high percentage of purity and germination. Order your entire seed supply early.

It is always profitable to plant reliable seed but this season more than ever before it is necessary to be as sure as possible of the seed you plant. A very large percentage of our customers now purchase our Sterling brands of Grass and Clover exclusively, and will not have any other. They have found it to their interest to pay a little more for this brand and be absolutely assured that they are getting as fine seed as money can buy.

### What the Microscope Reveals.

The photographs shown on this page are all magnified several diameters to more clearly demonstrate that which is not fully understood by those unfamiliar with the handling of Grass and Clover seed. The pictures numbered 1, 3, 5 and 7 are Northrup, King & Co.'s Sterling Brands of Medium Red Clover, Timothy, Alsike Clover and Montana Alfalfa respectively. It will be noted how pure and plump are these brands of seeds. On the other hand, the pictures numbered 2, 4, 6 and 8 are ordinary grades of seeds commonly offered on the market. The magnifying glass readily detects the weed seeds of all kinds, broken sticks and straws, immature, brown and shrunken seeds, dirt and refuse which are not only of no value, but prove of considerable loss and harm. These impurities pass by unnoticed until placed under the microscope. To avoid the sowing of doubtful quality seed on your land and to receive real value for your money, it is always good judgment to purchase one of our three reliable brands.

## CLOVER SEED.

**Prices.** The Clover Seed market is so unsettled that we are listing no prices on Clover in our catalogue. For prices on all varieties, ask the nearest dealer to you that handles our line of branded Clover seed. If no merchant in your vicinity handles our seed write to us and we will see that you are supplied.

**Medium Red Clover.** This is regarded as the most valuable of the Clover family. It is sometimes called June Clover and is a dependable all-round variety for farmers and stockmen. It makes two crops each year. The first is usually cut when it is in blossom for hay; the last crop may be harvested for seed, cut for hay, or plowed under to add fertility to the soil. It may be sown either in the Spring or Fall, and where no other grasses are used, at the rate of 10 to 12 pounds to the acre, according to quality of seed used and condition of the soil. Clover adds greatly to the fertility of the land on which it is grown. It does not exhaust the soil, but enriches it. It pays always to buy the best quality of Clover seed which can be obtained. Even though the first cost is twice as much as cheaper seed, it will be found in the long run that inferior seed is the most expensive, not only on account of less hay or seed being produced from it, but from the fact that one's land becomes infested with weed seeds which decrease the value of the land on which they are growing. Our Booklet on Clover contains information of value to every farmer. It will be sent without charge, upon request.

It has been demonstrated time after time that crops following a growth of Clover are larger and of better quality than when grown on land which has produced the same crop for a series of years. Clover should be rotated with grain crops every three to five years. The small nodules or bacteria which cling to the rootlets possess the power to draw the nitrogen from the air and store it in the soil where it is most needed and where it can be drawn upon by subsequent crops. It is well to sow Clover with every crop of hay. It serves to keep the ground free from weeds, restores fertility, and may be pastured in the Fall, or will repay the grower even if put to no other use than to be plowed under as a green fertilizer. Sow 10 to 12 lbs. of Red Clover Seed per acre. For price, see the merchant who handles our brands of Clover seed or write us.

**Mammoth Red Clover.** This is grown largely for pastures and to restore fertility to depleted soils. It makes good hay if cut soon enough although it has a coarser stem than the Medium Red Clover. Mammoth Red Clover supplies fine grazing for stock. It sometimes yields more seed than Medium Red Clover. Being a rank grower, it is very valuable for fertilizing purposes. The foliage, flower and stem are darker in color than the Medium Red Clover. It ripens later, and makes only one crop. Especially valuable on light, sandy lands. Eight pounds of Sterling brand seed are sufficient to sow an acre on good soil. For price see note at top of page.

**Alsike or Swedish Clover.** This is one of the hardiest varieties known. It is perennial and does not winter kill. It will do better on moist land than any other variety of Clover, and is suitable for either hay or pasture. When sown with other grasses, it forms a thick undergrowth and greatly increases the yield. It is frequently sown both with Medium Red Clover and with Timothy, and the quality of hay thus produced is excellent. It is fine-stemmed and leafy and thus is quickly cured. It makes a very profitable seed crop in many sections of the Northwest. Sow 8 to 10 lbs. per acre. For price see paragraph on prices at top of this column.

For Alsike and Timothy Mixed see page 100.



Alsike Clover. Valuable for Both Pasture and Hay, Especially in Combination with Timothy.

**White or Dutch Clover.** A low, close growing Clover; round, white heads, very fragrant. Very desirable for beautifying the lawn. It will stand close cutting and very rapidly throws up an abundance of leaves and blossoms. It is usually better to sow with other grasses. Does well on most any soil. Prices will be quoted by your dealer who handles our line or write us if no merchant is convenient.

**Crimson or Scarlet Clover.** An annual of strong, erect growth, deeply and places in the soil an abundant supply of nitrogen. Grows luxuriantly on fertile loam and does better, as a rule, on poor or thin soil than Red Clover. When plowed under it adds to the soil a large amount of humus or available plant food, thus enriching the land and preparing it for other crops. Sow 10 to 15 lbs. of seed per acre in the Spring. Adapted for states south of the Ohio River. See note on price at head of first column.

## SWEET CLOVER.

Alfalfa's Twin Sister.

**White Blossom or Bokhara.** *Melilotus Alba.* This lives two years and then dies. It is the variety commonly referred to when "Sweet Clover" is mentioned and is the best for general use.

It is an erect branching biennial plant with woody stems, the first season growing 1 1/2 to 3 feet high and developing a large root, in which is stored food material for the second season's growth. The growth the second season usually reaches a height of 4 to 7 feet. It bears flowers and seed the second season and then the plant dies, so it is readily controlled by cutting before it goes to seed, which will prevent any seed being self sown.

**Culture.** Sow the seed at the rate of 15 to 20 lbs. per acre, with a nurse crop of grain, or alone, in well prepared fields in April or May. Cover the seed very lightly. It may follow a cultivated crop by preparing the seedbed with surface-working implements. If the soil is plowed, this should be done several weeks before seeding. Sweet Clover requires a very firm, compact soil.

Sweet Clover is a legume having the same bacteria on its roots that grow on Alfalfa. Consequently it supplies nitrogen to the soil and prepares the way for Alfalfa.

Some authorities advise inoculating Sweet Clover just as you would Alfalfa, by using soil from land where Sweet Clover is growing, or by treating the seed with "Nitragin", (listed on page 98). By either method one can be sure of having plenty of the nitrogen germs in the soil, which will tend to give the plants a good start. Wherever Sweet Clover grows wild, this is usually unnecessary.

**Where to Plant.** Sweet Clover is especially valuable for building up worn-out soils. It is not usually advisable to plant it where Red Clover or Alfalfa flourishes, as these crops are commonly more valuable to the grower. However, some farmers are planting Sweet Clover in preference to other crops for pasture.

It grows in a variety of soils—heavy, light, wet or dry, almost anywhere except in acid soil. But it does best on a firm, well drained soil which is rich in lime and delights in exposed subsoils and stony situations.

The Montana Experiment Station recommends it for improving Alkali soils. It is a splendid green manure crop for plowing under as it supplies so much humus and nitrogen to the soil. Growers report extra large yields of corn and other crops following Sweet Clover.

**Hay and Pasture.** From many states come glowing reports of the value of Sweet Clover for hay and pasture. After acquiring the taste, stock often prefer it to other pasture. A farmer near Minneapolis experiences great difficulty in keeping his cattle away from it, as they frequently break down the fence to feed upon the tender growth before it is ready to cut.

It is usually possible to get one cutting of Sweet Clover the first year and two good hay crops the second; or hay and pasture, or one hay crop and one seed crop. It is a splendid feed, about equal to Alfalfa.

Price subject to change. Ask your dealer or write to us.

**Yellow Blossom.** *Melilotus Officinalis.* This variety belongs to the same family as White Blossom Sweet Clover but it is not so prolific in growth, will not produce so large a tonnage, does not grow quite so tall, but is from ten days to three weeks earlier.

The flowers are yellow instead of white. For bee pasture and fertilizing purposes, we believe it to be equally valuable, but for hay or pasture it is not so desirable. See note on price at top of this page.

"Nitragin" for inoculating Clover will be found on page 98.



White Blossom Sweet Clover. Note the Strong Crowns.

# ALFALFA OR LUCERNE

## FACTS ABOUT ALFALFA.

"There is no state in the Union in which Alfalfa cannot be successfully grown." Alfalfa is more valuable than clover in many sections of the country, since wherever it flourishes it yields more per acre and is worth far more as a feed.

Alfalfa produces from 3 to 7 tons of hay to the acre. It has as much protein as Wheat bran.

360 stalks have been grown from one seed.

It does not exhaust the soil, it enriches the soil.

It will grow 3 to 5 crops a year.

Alfalfa in money value is worth 45 per cent. more than other Clovers and 60 per cent. more than Timothy.

Ten milch cows can be fed on less than 2 acres by soiling.

One acre will pasture 20 pigs for 6 months.

Three pounds a day makes a full feed for fattening lambs.

Four to five pounds makes full feed for fattening aged sheep.

Thirty-five pounds makes full feed for fattening steers.

Sheep fed on Alfalfa will gain from 8 to 15 pounds in 75 days and will double with small grain ration added.

Lambs wintered on Alfalfa will produce one to two pounds more of wool than when on the ranch.

Fed to dairy cows Alfalfa maintains the flow of milk equal to June Grass. It can be chopped fine with corn meal. Such a mixture is worth more a pound than the original corn meal.

Many interesting facts in addition to the above might be cited about Alfalfa. It would hardly be possible to say too much about Alfalfa, it is a working plant which is changing the destiny of many farming sections.

"Its long, branching roots penetrate far down, push and crowd the earth this way and that, and thus constitute a gigantic subsoiler. These become an immense magazine of fertility. As soon as cut, they begin to decay and liberate the vast reservoir of fertilizing matter below the plow, to be drawn upon by other crops for years to come."

From its original home in Asia, Alfalfa has been carried to all parts of the world where agriculture is important. The name "Alfalfa" is Arabic for "the best fodder." It has been grown in the eastern states for 200 years and is now the staple, leguminous forage crop throughout the western half of our country. Alfalfa has been grown successfully in Minnesota for over fifty-five years. Descriptions of varieties suitable for this and other extreme climates are to be found on page 99.

**Characteristics.** One of the most important characteristics of Alfalfa is the long tap root, frequently extending fifteen or more feet into the soil. Unlike most farm crops, Alfalfa makes nearly all of its growth below ground the first season. The deep growing roots penetrate the sub-soils and bring to the top soil the phosphorus and potash stored below, making them available as plant food for the succeeding crop. After the great roots decay they form passages for air and water, besides leaving openings for the roots of the next crop.

As a soil builder, the Iowa Experiment Station claims that an acre of Alfalfa adds over twice as much nitrogen to the land as the average acre of Red Clover. Nitrogen is the most important element in the soil and the one most likely to give out. Alfalfa does not ask the farmer for nitrogen because it gets its nitrogen from the atmosphere.

Few general rules can be laid down for Alfalfa culture since different conditions require different methods. One must study the requirements of the plant and treat his land to meet these needs.

In order to find out in the shortest time what treatment any particular land needs, whenever doubt exists, it is well to plant quarter acre test plots, using lime on one plot, a liberal dressing of manure and lime on another, manure without lime on a third; no lime and no manure on the fourth, as a check on the first three. The method giving best results can be applied to a large acreage the succeeding season.

Where the preparation of the soil and time of seeding are important factors, the experiments can be made along these lines.

## RULES FOR SUCCESS.

**1. Plant in deep, loose, friable soil.** If the soil is shallow the Alfalfa plant cannot utilize its deep-feeding root system and is likely to be choked out by surface-feeding weeds. The roots can, however, penetrate rather stiff, clay soils and sometimes go through hard-pan. Soils that are light on account of being sandy usually lack fertility, but this can often be corrected by the free use of manure. Good fields are sometimes found on heavy clay soils.

The seed bed should be fine on top, but well settled. It usually requires six weeks for plowed land to settle enough for seeding. The land should be disked and harrowed right after plowing. Then work it every ten days or two weeks until the seed is sown; this will insure sufficient moisture for germination. When late seeding is practiced, begin to cultivate as soon as the preceding crop is removed.

For some soils diskling is sufficient. This is of course less expensive than plowing and it does not take so much time for disked land to settle as it does for the plowed land. The preparation must be uniformly good, as the poorly prepared spots are sure to fail and become weed centers later. Summer fallowing is often practiced in the semi-arid regions to conserve moisture for germination of seed at planting time and destroy weeds.

For sandy ground apply a light top dressing of straw or coarse manure just before seeding to prevent the soil from drifting, or sow the Alfalfa in a thin stand of small grain, such as barley.

**2. The soil must be well drained.** Alfalfa does not thrive where the water table is within six feet of the surface.

The land must be well drained, either naturally or by the use of tile or open ditches. Fine results have been obtained on drained bottom-lands. Land slightly rolling or nearly level and well drained is usually considered the best. Alfalfa is often killed by overflow from streams. During the growing period it will not usually stand more than twenty-four hours of complete submergence or forty-eight of partial overflow.

When sown on land with dry sub-soil, the roots penetrate for a few inches through the moist top soil and then reach the dry, hard sub-soil located perhaps at the bottom of the furrow slice. Being unable to penetrate this dry soil, the roots stop growing or run horizontally in the bottom of the furrow, thus forming only a shallow root system. To prevent this condition, either plow in the Autumn or else wait six weeks for the ground to settle before planting Alfalfa in the Spring.

**3. Inoculation is necessary.** Inoculation means putting or planting in the soil, nitrogen-fixing germs or bacteria without which the Alfalfa cannot flourish. Where Sweet Clover grows wild, in the field or along the roadside, artificial inoculation for Alfalfa may not be necessary as the same germs grow on the Sweet Clover as on Alfalfa and natural inoculation takes place. But there is no other plant which commonly grows wild in the North that can support the same germs as the Alfalfa. All the legumes including clover, peas and beans bear bacteria but a special kind lives on each plant. These germs on the Alfalfa roots form nodules from the size of a pin head to a pea.

There are several methods of inoculating Alfalfa seed but we recommend the use of Nitragin as priced on the bottom of this page.

Another form of preparation is to sow a few pounds of Alfalfa seed on the field two or three years before it is intended to seed a regular Alfalfa crop, putting it in with grain, clover or any other seed used. If this is undesirable it often pays to plant a small amount of Alfalfa six months to a year before the regular crop. Probably the seed carries a few germs, and in time these plants will often develop nodules.

**4. Use Lime for soil acidity.** Alfalfa will not grow where the soil is acid. This is often the case where corn, and wheat have been raised for many years. A simple test for acidity is to make a deep cut in the ground with a knife, pressing the earth slightly apart, then push a piece of blue litmus paper (procureable at any drug store) into the opening, press the earth together and leave it for several hours. If the paper turns from blue to red it is proof of acidity. This test should be tried in several parts of the field.

Lime is the principal material needed to sweeten acid soils. It is also necessary for plant growth as nitrogen or phosphorus. If agricultural lime does not cost over \$3.00 per ton it is better to use it than burned lime which is caustic. Up to two tons per acre of caustic lime, if well distributed, is safe to use. If ground limestone is applied, it should be very finely ground and spread at the rate of 1500 to 3000 pounds per acre.

Lime is to be applied after plowing and thoroughly disked in, preferably some weeks in advance of seeding. It may be spread from a wagon with a shovel, or with a manure spreader or broadcast grain seeder. There is little danger of using too much lime.

**5. The land must be free from weeds.** Young Alfalfa plants are very tender and are likely to be killed by weeds during their early stages of growth. On this account the land should be as free from weeds as possible. Raising a cultivated crop or a crop like clover, which naturally prevents weed growth, will help to check weeds. If a weedy soil must be used, plow the land several months before seeding the Alfalfa and destroy the weeds as they appear by frequent harrowings. Weeds are especially harmful to spring-seeded Alfalfa, so for this reason spring seeding should be avoided in some sections.

**6. Selection of seed is most important.** Poor seed is a primary and great cause of a poor stand. In buying Alfalfa Seed the highest priced seed is often the cheapest. The loss is much greater in using seed of poor quality, than the difference in cost of the seed. This loss comes from the labor thrown away, the stands lost and yields sacrificed by its use, as well as the final expense in getting rid of the weed seeds introduced.

If seed germinates poorly, one must either plant more seed or expect a thin stand. Small, shrunken seed will not produce vigorous plants. Weedy seed means the introduction into the field of plantain, dodder, thistle, mustard or some other pest, ready to take advantage of the fine fertile soil and unto the work of two years preparation.

Our Sterling Brand Alfalfa is as plump and fine colored seed as grows. It is selected from the best seed produced and must comply with our standards of purity and germination.

**7. Sow the seed so it will be covered.** Alfalfa Seed must be covered, not sown on the surface, as is sometimes done with grasses and clovers. It may be planted with drill or seeded broadcast by hand, hand seeder or wheel barrow seeder. It is advisable to sow half the seed one way across the field and the other half at right angles to secure an even distribution.

Depth of planting depends upon the soil. Covering three quarters to one inch deep is usually sufficient on clay soils, but one and one-half inches deep is required on sandy soil, or in the semi-arid sections. When sown broadcast, a light harrow, weeder or brush is used to cover seed.

**8. Use plenty of seed.** Much more seed is required in the humid sections of the country than in the semi-arid and irrigated districts. Good stands from five pounds of seed per acre are not rare in the West. For the central and eastern states ten to twelve pounds per acre is the usual amount and this may be increased to twenty pounds if it is necessary for the Alfalfa to cover the ground from the start, to prevent weeds from becoming established. The quantity to sow will also depend upon the condition of the soil as to moisture, the weather conditions and seeding method employed. With land prepared by sowing a few pounds of seed six months to a year preceding, with a heavy application of stable manure plowed under six months before, perfect soil preparation, normal moisture, clean seed of high germination—10 pounds of seed per acre should be sufficient.

**9. Using a nurse crop often advisable.** Weeds are likely to prove troublesome for Spring seeded Alfalfa unless the ground is clean from previous cultivation. A nurse crop helps to check the weeds until the Alfalfa Seed starts. The nurse crop takes some of the moisture and plant food from the Alfalfa and shades it. But it gives the advantage of planting the Alfalfa with little additional expense, except the cost of the seed. Moreover by this method it is not necessary to give up the use of the land for a whole season to get the Alfalfa established.

Barley, wheat or rye are better for a nurse crop than oats. Oats require more water and give too much shade. Do not sow Alfalfa seed with the grain, but plant each separately. Reduce from one-third to one-half the regular rate of grain seeding when using it for a nurse crop.

**Our Alfalfa Booklet describes further treatment for the successful growing and handling of Alfalfa. See page 8.**

## Nitragin

The Pure Culture system of inoculating legumes is endorsed and recommended by U. S. Government authorities, by state experiment stations, by practical farmers and other agricultural experts in every section.

There is a special strain for each legume, including Alfalfa, Red Clover, White Clover, Alsike Clover, Cow Peas, Soy Beans, Vetch, Garden Peas, Garden Beans, and all other legumes. In ordering be sure to name the crop to be inoculated.

**Price.** Garden size for peas, beans and sweet peas, per can, 30c. For field crops,  $\frac{1}{2}$ -acre size can, 50c; acre size can, \$1.00; 5 acre size can, \$4.00, F. O. B. Minneapolis. Postage and express extra. Parcel Post, 10c per acre extra. Order Nitragin Pure Culture with your seed.

# ALFALFA SEED

Sow 10 to 12 Pounds per Acre.

All prices on grass and field seeds are subject to market changes. Ask your dealer for latest price or write to us.

## Northrup, King & Co.'s Sterling American Grown Alfalfa.

**Grown Alfalfa.** For our Sterling Brand Alfalfa we obtain as plump and fine colored seed as grows. This seed is selected from the best seed produced. We will be glad to send a sample to any one about to purchase. When writing for sample, state quantity of seed you wish to buy, 10 to 12 lbs. are usually sown to the acre. The demand for Alfalfa has been increasing from year to year. It is desirable, therefore, that orders be sent in promptly. Values on all grades will be quoted by your dealer who handles our brands of Alfalfa Seed or write us and we will give you the information.

Northrup, King & Co.'s Sterling Brand. } Prices on all brands of Alfalfa  
Northrup, King & Co.'s Northland Brand. } quoted by your dealer  
Northrup, King & Co.'s Viking Brand. } or by mail.

## Northrup, King & Co.'s Sterling Dakota Grown Alfalfa.

**Grown Alfalfa.** Experiment stations and other authorities all agree as to the advantages of northern grown Alfalfa seed. Even when the seed originally sown was not especially cold-resistant the more tender plants are soon eliminated, leaving the hardier plants to produce seed. Seed from such fields is always preferable for northern planting to seed produced farther south.

Our Sterling Dakota Grown Alfalfa is especially recommended for northern planting. This seed comes from long established fields. It is splendid, plump and fine colored. Our seed was grown at an altitude of between three and four thousand feet, where the rainfall rarely exceeds eight inches per annum. The temperature reaches both extremes, exceedingly hot and dry in Summer and down to 30 to 40 degrees below zero in Winter, with little or no protection by snow. Plants which survive these rigid tests are very hardy plants and the seed produced from these fields inherits the vigorous tendencies of the parent plants.

Northrup, King & Co.'s Sterling Brand. } Prices on all brands of Alfalfa  
Northrup, King & Co.'s Northland Brand. } quoted by your dealer  
Northrup, King & Co.'s Viking Brand. } or by mail.

## Northrup, King & Co.'s Sterling Montana Grown Alfalfa.

**Grown Alfalfa.** Montana produces a very fine grade of Alfalfa. The seed is usually exceptionally large and of high germination. Montana grown Alfalfa is extremely hardy and some prefer it to seed from any other locality. Our seed is obtained in those sections where plants have endured the extreme cold of Winter and thrive in high altitudes. Not only has our experience of several seasons demonstrated the superiority of this seed under adverse climatic conditions throughout the entire Northwest, but more recent experiments of both the Minnesota and North Dakota Agricultural Stations have established the superior hardiness of Montana grown Alfalfa.

Northrup, King & Co.'s Sterling Brand. } Prices on all brands of Alfalfa  
Northrup, King & Co.'s Northland Brand. } quoted by your dealer  
Northrup, King & Co.'s Viking Brand. } or by mail.

**Alfalfa Booklet.** This booklet is sent to our customers without charge if asked for. It contains information of importance to Alfalfa growers everywhere and will help you succeed with this crop. It gives the best methods of preparing the land, seedling, inoculating and caring for the crop, based on the experiences of successful growers in the Northwest. See page 8.



Alfalfa Hay in the cock. Land values are sure to increase, where three crops like this are cut each year.

**Liscom Alfalfa.** This variety is similar to Grimm in many characteristics. The first seed came from Central Europe about 35 years ago; it was sown in Montana where the original field is still in existence and bearing fine crops. Liscom shows a variation in the color of the flowers and frequently has a branching root stock.

Our seed of this variety was obtained from a field 25 years old, in the county adjoining Custer, where the original field is located. The seed we offer is especially adapted for sowing in the Northwest. It comes from plants that have withstood both extremes of temperature, 40 degrees below zero without any covering of snow and 114 degrees above. It is probably as hardy as any Alfalfa available, seldom winter kills, and is a great drought resister. Liscom Alfalfa yields splendid crops and the price is reasonable. For latest prices ask your dealer or write to us.

**Dry Land Alfalfa.** The extension of Alfalfa growing into the regions of limited rainfall has created a demand for Alfalfa seed especially adapted to those conditions. Seed which has been produced from Alfalfa grown on dry land and without irrigation is of course much preferable for dry land culture to seed produced under irrigation or normal rainfall. It is not always possible to obtain seed grown under these conditions, but we have succeeded in purchasing a limited amount of fine seed which is offered only until our stock is exhausted. The Alfalfa we offer as Dry Land is all its name implies. It was grown under severe conditions of low temperature in Winter, usually with little or no covering of snow, and hot weather in the Summer.

In case we do not have Dry Land Alfalfa when your order is received, we suggest that you state on your order the variety we may substitute in its place to the value of the money you send us; or, in the absence of these instructions, we will promptly refund your money if we do not have what is wanted. We never substitute without the consent of the purchaser. Price quoted by dealers who handle our brands of Alfalfa seed. Please advise number of acres you intend to sow.

**Turkestan Alfalfa.** This variety has been satisfactory in many sections and has become quite popular. In consequence over six million pounds of Turkestan Alfalfa seed are imported annually to the United States. This seed is grown on the high table lands of central Asia where the days are hot and the nights cold. It has been successfully grown for years in this country. The Minnesota Experiment Station reports that Turkestan Alfalfa has given good results in Minnesota. A successful Alfalfa grower has had years of experience in raising Alfalfa near Minneapolis where a temperature of 20 to 30 degrees below zero almost every Winter tests the hardiness and vigor of all plant life. Not only low temperatures, but dry winds and little snow protection make winter conditions even more severe here. This grower reports great success with Turkestan Alfalfa and usually secures three cuttings of hay annually after his Alfalfa fields become established. Price will be quoted by our dealers on request. Please advise number of acres you intend to sow.

**Grimm Alfalfa.** Many years ago a man named Grimm came from Germany and settled near Minneapolis. He brought with him seed of an Alfalfa, which according to a neighborhood statement, he called Norwegian Alfalfa. It became known, however, as Grimm's Alfalfa and obtained a more than local reputation on account of its productiveness and extra hardiness, for it survived Winters that killed out many fields of other varieties of Alfalfa. Of course this was before the Montana, Dakota or any other northern grown Alfalfa seed was procurable.

Small patches of Grimm Alfalfa are grown in the Black Hills of South Dakota, among the mountains of Montana, Idaho and Oregon. From some of these we secure limited amounts of fine Grimm Alfalfa seed. For prices see the nearest dealer handling our line or write to us.

**Nitragin.** This is a splendid preparation of Alfalfa bacteria for inoculating the seed before sowing. It is sold ready for use. See page 98.

## TIMOTHY SEED.

Timothy is the best known, most extensively sown and one of the most profitable grasses grown in this country. Having a large bulk of stems, with few leaves, the hay wastes little in transportation. The grass stands up well, the hay is easily cured and heavy for its bulk.

Timothy is very easily established, the seed is inexpensive, and easily sown. It starts rapidly and often yields its best crop the year after sowing. It is extremely hardy, enduring extremes of heat and cold. It does best on moist, clay soils.

**Characteristics.** This grass has shallow, fibrous roots, growing in stools and never forming a compact sod. Timothy increases by multiplication of bulbs, just as some onions do. These bulbs, at the base of the stalk, store food for future plant growth. As the plant ripens, nourishment is stored in these bulbs as well as in the seeds. If Timothy is cut too early, the bulbs are weakened and the stand decreases. These bulbs also increase and store up nourishment in the Fall while the aftermath is growing; therefore it is likely to injure the meadow seriously if it is pastured in the Fall. It should never be pastured unless the aftermath is unusually heavy due to a wet Fall.

Timothy rapidly exhausts the soil nitrogen and so the meadows are greatly improved by a dressing of stable manure or other fertilizer. The latter should contain a medium Red Clover makes a good combination with it and together they form the standard crop for mowing and pasture lands on the majority of farms in the northern and middle states. For a mixture of Timothy and Alsike, see below.

Timothy is useful for seeding mountain pastures on ranges in moist areas. It is not suited for a permanent pasture as it will run out in the course of a few years. It is, however, well adapted to early Spring grazing as it starts up quickly in the Spring before Blue Grass. The largest crops of hay are raised on rich land. It is not suited for light, sandy soils so well as other grasses.

**Harvesting.** Timothy hay has a higher feeding value when it is cut early. There is usually a large shrinkage when it is cut before blooming. Consequently, it is best to cut it while in bloom or very soon afterwards. The usual yield is one and one-half to three tons per acre.

**Seed Selection.** The most important point in the growing of Timothy is the selection of good seed. Poor seed, besides containing weed seed will not all grow. That which does germinate is weak and produces few stalks and seed heads. It should not take an intelligent farmer long to figure the wisdom of investing his time and money in reliable seed, and that means Northrup, King & Co.'s "Sterling" Brand. Only ten pounds of this brand required to the acre when sown alone.

**Prices.** Owing to the unsettled conditions of the market we are not quoting the price of Timothy in this catalogue. Values change from day to day and to secure latest prices ask your nearest dealer that handles our brands of Timothy Seed. If no merchant near you has our line, write to us and we can supply you.

### ALSIKE CLOVER and TIMOTHY MIXED.

Where Alsike Clover and Timothy are grown together, and the seed is saved therefrom, it is impossible, in cleaning, to make a complete separation of the two.

\* On this account we purchase the seed for less money and we can sell it for less than would be the case if a perfect separation could be made.

Those desiring to sow Alsike and Timothy together can save considerable money by buying the seed of these two varieties together as originally harvested.

The Minnesota Experiment Station recommends using Alsike in all Timothy and Medium Red Clover mixtures. The Alsike tends to increase the forage crop and in addition will replace the Red Clover as the latter begins to die out, since the Alsike is a hardy perennial and does not easily winter kill. Alsike and Timothy hay is much richer in feeding value than Timothy alone and will flourish on soils too moist for clover. Alsike is suitable for either hay or pasture. It is finer and more leafy than Medium Red Clover and cattle prefer it. Sow 12 to 15 lbs. of the mixture per acre. For prices ask the dealer in your vicinity that handles our seeds or write to us.

### Of Special Interest to Buyers of Timothy Seed.

The importance of sowing Northern grown Timothy seed of high purity and strong germination should not be underestimated.

For many years we have made a specialty of Timothy Seed produced in the North. Our buyers select only the brightest, cleanest and best appearing lots. By using the latest, improved cleaning machinery, we have carefully removed dirt, weed seeds and other impurities.

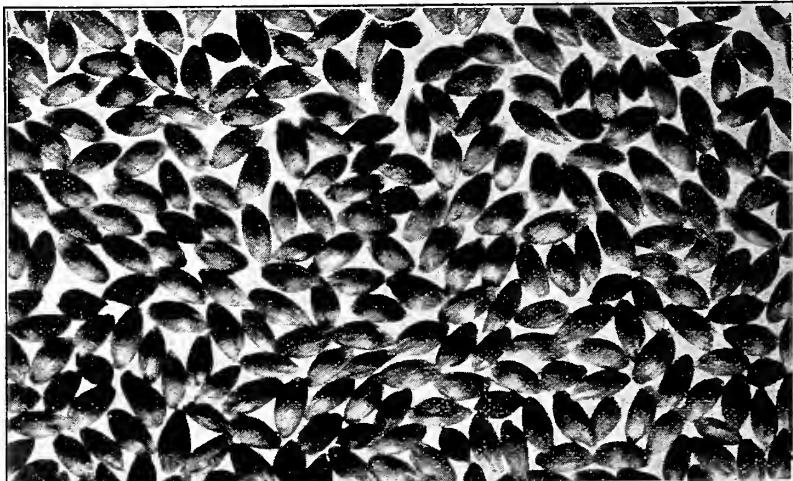
A description of our three brands will be found on page 96.

These standards are constantly maintained so purchasers can always be sure of obtaining seed of high quality adapted to Northern conditions.

**Meadows, Pastures and Soiling Crops,** a new and valuable booklet, gives much useful information about these subjects. A copy will be sent for five cents in stamps, postpaid.



Typical heads from Northrup, King & Co.'s "Sterling" Brand Timothy.



Photograph of Northrup, King & Co.'s "Sterling" Brand Timothy Seed enlarged twenty times. Note the purity, plumpness and freedom from foul seed.

# GRASSES

## Prices.

For prices of all Grasses ask your local dealer that handles our brands of grass and field seeds or if no merchant near you will get our seeds for you, write to us and we will see that you are supplied. Prices on field and grass seeds subject to market changes.

Some of the varieties listed below are very scarce this season so we suggest that you order early to avoid disappointment.

### BROMUS INERMIS. (Awnless Brome Grass.)

This is a native of the Russian Steppes and thus is suited to a cold climate and dry soil. It is strongly recommended by the Kansas, Nebraska and North Dakota Experiment Stations. It is good for pasture, and in some places for meadow—where the conditions are favorable. Brome Grass makes a dense growth of leaves which start down close to the ground. Animals like it well for pasture. Sheep and cattle like it the best of any grass.

Brome Grass thickens up rapidly by underground roots or stems. A thin stand thus improves quickly. It forms a dense sod six to eight inches thick, thus binding the soil together and preventing it from being wind blown. It is one of the deepest rooted of cultivated grasses. The stems grow erect, attaining a height of four feet or more.

It is drought defying, frost resisting. Yields enormous crops of splendid hay. It adapts itself to almost every condition of soil and climate and to any use to which grass may be put, equaling in quality and rivaling in yield almost any other grass. The roots push through the soil and form fresh plants on every side. It starts from two to three weeks earlier in the Spring than native prairie grass and it keeps green in the Autumn longer than any of the useful grasses grown in the West. No amount of cold seems to be able to kill it. It bears up well under hot summer suns. It will grow under conditions that are very dry, and it can also stand being covered with water, not deep of course, for one or two weeks in the early Spring. It is an abundant producer of leaves and is much relished as pasture and hay. It is about equally nutritious with Timothy. To the country west of the Minnesota border it is probably the greatest boon that has come to it since buffalo grass began to grow. The worth of this grass to the Dakotas and Minnesota is beyond all estimate.

For prices see note above.

### CANADIAN BLUE GRASS. (Poa Compressa.)

Resembles somewhat the Kentucky Blue Grass, but is shorter and more slender. It is grown very extensively in Canada and some parts of the United States. It will thrive even on hard clay soils, where there is not quite enough lime and fertility for Kentucky Blue Grass. It holds its color and freshness until snow comes. Canadian Blue Grass does not thrive when planted with Clover. Red Top and Orchard Grass are the best for mixing with it to grow on inferior soils. On good land it becomes tall enough for hay and as it shrinks very little in drying, the hay is heavy for its bulk. Grows from one to two feet high. Sow 30 lbs. of seed to the acre. See note on prices at top of page.

### KENTUCKY BLUE GRASS. (Poa Pratensis.)

This makes the best, sweetest and most nutritious pasture for all stock. It is the first to start up in the Spring and remains green until snow flies in the Fall. It is very hardy and is uninjured by cold or dry weather, hot sun or tramping of hoofs. The roots are so thick and stout that they form a tough sod. Blue Grass requires about two years to get well started and for that reason it is often sown in mixture with other grasses. It will do well on almost any land. Sometimes called "June Grass."

Kentucky Blue Grass does best on well drained, clay soils. It is well adapted to open woodlands. As a pasture it is better liked than any other grass except Bromus or Meadow Fescue. It may continue to improve for ten to fifteen years as the plants spread with their underground root stalks. It is best sown with a mixture of Clover, Timothy, Meadow Fescue and Bromus, which will later be supplanted by the Blue Grass. It is not advisable to turn animals on to a Blue Grass pasture before the grass is strong. During hot weather do not let them graze it very close. Sow 20 to 25 pounds of "Sterling Brand" seed to the acre when sown alone.

We wish to call particular attention to the cleanliness of our Sterling Brand Blue Grass. It is so thoroughly cleaned that a measured bushel weighs 28 to 30 lbs. We sell Kentucky Blue Grass at the lawful weight of 14 lbs. to the bushel. See note on prices at top of column.

### ORCHARD GRASS. (Dactylis Glomerata.)

A valuable grass for pasture or hay land, and on account of its earliness is very valuable for a permanent pasture. It furnishes the first green grass in the Spring and until late in the Fall. When closely cropped it grows up very quickly and is ready for grazing again in 10 to 12 days. It will stand drought and is hardy. It grows in tufts, and is therefore best sown with Red Clovers, Rye Grass, etc. It is well suited for shady places, such as orchards and groves. Grows on all kinds of land but does best on deep, rich sandy loam or clay soils. Sow 22 lbs. to the acre.

### RED TOP SOLID SEED. (Agrostis Vulgaris.)

The place for Red Top is on rather moist soil, deficient in lime and fertility. It will grow where the soil is too poor for Timothy and Kentucky Blue Grass. It is a good variety to sow with Timothy and Clover for meadow or pasture and is more permanent than either of the other two. It should be fed close, for if it is allowed to grow up to seed, the cattle dislike it. On good soil it grows about two feet high; on poor, gravelly land about half that height. It has been grown successfully even on alkali land where other grasses failed. Red Top, commonly known as Herd's Grass, should be extensively grown, especially with other grasses.

Red Top has in tracings thick roots which make a firm sward not likely to suffer injury from the hoofs of animals. It stands the effect of drought better than Timothy. It is more permanent if it is grazed off and not allowed to go to seed. For the best quality of hay, it should be cut when in full flower. It is more easily cured than almost any other grass.

As a hay crop, Red Top is next to Timothy in importance among grasses in this country. It grows two feet or more high and yields one to two tons per acre. It increases in thickness for several years after sowing and is one of the most permanent of cultivated grasses. Red Top weighs 14 pounds to the bushel. Only 10 pounds of "Sterling" Brand required to the acre. For prices on all brands, see note at top of page.

For prices see note at top of first column.

**Creeping Bent Grass.** (*Agrostis Stolonifera.*) Distinctive on account of its compact, creeping, rooting stems. Of rapid growth and spreading habit, forming a strong, durable turf. Good for lawns and putting greens because of its fine texture. If sown alone, use 50 lbs. to the acre. We do not expect to have any seed of this variety to offer this season.

**Crested Dogstail.** (*Cynosurus Cristatus.*) A hardy grass forming a smooth, compact and lasting turf. Does best on rich, moist land, but will grow on most any soil. Roots deeply and withstands dry weather. Does well in the shade. If sown alone, use 30 pounds to the acre, but the best way is to mix with other grasses.

**English or Perennial Rye Grass.** (*Lolium Perenne.*) This is becoming well known in this country as a valuable pasture grass which will bear frequent close cropping. Produces an abundance of foliage, which remains bright and green during the season. The hay is relished by all kinds of stock. It will grow well on almost any land but does better on such land as will produce a good corn crop. The plants start early, flower early and repeatedly during the growing season. The leaves are abundant and the whole plant is nutritious.

**Fine-Leaved Sheep's Fescue.** (*Festuca Ovina Tenuifolia.*) A very fine-leaved grass. Thrives well on dry and sterile soils. Well suited for lawns. 30 lbs. per acre.

**Hard Fescue.** (*Festuca Duriuscula.*) A valuable grass for dry lands and sandy soils, very hardy, enduring extremes of heat and cold and long droughts. Splendid for permanent pastures on poor land. Not recommended for lawns on account of its stolonizing habit. Sow 30 lbs. to the acre.

**Italian Rye Grass.** (*Lolium Italicum.*) This is, like the Perennial Rye Grass, valuable for pasture and also for hay. It thrives on rich, moist land, where from three to four cuttings may be made in a season. It grows very quickly and will stand close pasturage. About 24 lbs. of seed required to the acre.

**Meadow Fescue or English Blue Grass.** (*Festuca Pratensis.*) Especially suited for permanent pasture and is also fine for hay. Grows two to three feet high but not in tufts like Orchard Grass. The hay is very nutritious and cattle thrive on it whether it is dry or green. Succeeds even in poor soil, and as the roots penetrate deep, from 12 to 15 inches, it takes extremely dry weather to affect it. As a fertilizer it has valuable properties. It will endure severe freezing and its use is becoming more widespread each year. 24 lbs. are sown to the acre.

**Meadow Foxtail.** (*Alopecurus Pratensis.*) One of the best grasses for permanent pasture, early and of rapid growth. Sow 30 lbs. per acre.

**Red or Creeping Fescue.** (*Festuca Rubra.*) A creeping-rooted variety forming a close and durable turf and particularly suited for dry, sandy soils. Resists drought and thrives on very poor soils, gravelly banks and exposed hillsides. Valuable both for shady lawns and for golf courses. 30 lbs. to the acre.

**Rhode Island Bent Grass.** (*Agrostis Canina.*) Resembles Red Top, but is shorter and has narrower leaves. It makes a beautiful, fine, close turf and is one of the best grasses for lawns. It does well on both rich and poor soils. Makes excellent pasture but never grows high enough to supply a great quantity of feed. Sow with other grasses or if alone use 50 lbs. of seed an acre. No seed of this variety to offer this season.

**Sheep Fescue.** (*Festuca Ovina.*) An excellent grass for poor, sandy soils. It is a perennial, densely tufted and of very fine foliage, making it well suited for lawns. It is also very satisfactory for pasturage, furnishing good grazing, especially for sheep. Resists drought remarkably well. Sow 40 lbs. per acre.

**Tall Fescue.** (*Festuca Elatior.*) Very early and nutritive; should form part of all pasture mixtures on wet or clay soils. This valuable grass grows two to four feet in height, generally forming tufts or bunches. The roots are strong and woody, with a tendency to sucker. It is well suited for permanent pasture and is most productive three years after sowing.

**Tall Meadow Oat Grass.** (*Avena Elatior.*) A hardy grass of rapid growth, luxuriant, and reaching a height of 4 feet on rich soil by June 15th. Makes excellent hay on sandy loams, but is particularly suited to rich soils and clay formations. If hay is desired, cut when in blossom. It has a wonderful capacity for enduring severe heat, drought and cold. It can be cut usually twice a year. To make good hay it should be cut immediately when it blooms. This frequently produces twice as much hay as Timothy. May be sown either in the Spring or Fall, 2 to 3 bushels per acre.

**Various-Leaved Fescue.** (*Festuca Heterophylla.*) Valuable for permanent pasture, and is also desirable in lawn mixtures.

**Wood Meadow Grass.** (*Poa Nemoralis.*) Very succulent and nutritious, early and thriving well under trees and in shade. Admirably suited for pastures, as well as lawns.

**WESTERN RYE GRASS.** (*Agropyrum Tenerum.*)

Sometimes called Slender Wheat Grass, the famous bunch grass of the Canadian Northwest.

It affords excellent pasturage and provides large quantities of hay, but if wanted for hay, should be cut early, as it is relished better by stock. It thrives on all soils, but is peculiarly adapted to prairie soils. It gives good returns on land quite strongly impregnated with alkali and fits it so that grain may be grown successfully.

The seed being quite heavy, may be sown with any ordinary grain seed. When sown alone as is the common practice, the seed should be put in from 1 to 3 inches deep according to soil and season, 15 pounds to the acre. If with Bromus Inermis, 7½ lbs. of each. For prices see note at top of first column.

# MILLET

For Prices on all Millets see the dealer in your vicinity that handles our brands of Millet Seed. If no merchant can supply you write to us as to your requirements.

**German Millet.** (True Southern Grown Seed.) In the North, Millet is sown almost altogether for hay, and for that purpose Southern grown seed is much the best. It grows taller than does that from Northern seed, and that means more hay. It is finer than that from Northern seed, and that means better hay. In fact, it is our judgment, based on an experience of many years, that a farmer had better, from the standpoint of profit alone, pay \$2.50 a bushel for true Southern grown German Millet than to sow the best Northern Millet as a gift. Millet seed produced in the North, even from Southern seed, becomes what we call Common Millet. Not only does the plant change in character becoming coarser and much more dwarf, but the seed itself shows a change, and is readily distinguished by those experienced in handling it.

We wish to say that any Millet seed offered and shipped by us as German Millet is true Southern Grown Seed, and that only.

German Millet is very sweet, palatable, and when fed to dairy cows produces a large amount of milk. On good rich soil it grows four to five feet high. It is very tender if cut at the right stage, which is when it is in full bloom. About three-fourths of a bushel of seed is sown to the acre; 48 lbs. per bu. A good yield is from three to five tons of hay to the acre.

For prices of all brands, see note at top of column.

**Common or Northern Millet.** As stated before, Common Millet does not yield so much hay nor so good hay as the German (Southern Seed). It is usually much cheaper than true German. Grows usually from two and one-half to four feet high and makes excellent hay. Sow about three-fourths of a bushel to the acre. We have in store this season an especially fine lot of Common Millet which is as nearly perfect in quality as Common Millet can be. This we are offering under our Sterling Brand. All grades of Common Millet will be priced by your dealer who obtains his stock from us, or if he will not secure it for you, write to us.

**Hungarian.** (Dark Seed.) Often called Hungarian Grass. Many regard this as being better even than German Millet as it is about one week earlier and requires less moisture. The hay is fine and of excellent feeding value.

It is especially valuable on account of requiring such a short season to make a fine crop of most excellent hay. For this reason it is much used as a catch crop. It can be sown as late as the 4th of July with good results, in ordinary seasons. It is much used for following such crops as early potatoes and barley for a crop of hay, thus giving two crops on the same land in one year. Also grown as



A Plot of German Millet.  
Grown from True Southern Grown Seed. Note the Heavy Growth.

a green manuring crop to turn under, adding humus or fertility for future crops. Hungarian Millet does not grow so coarse as some other varieties, but still yields quite heavily, from two to four tons of hay to the acre being an ordinary crop. Hay is quite leafy, of very fine quality. Crop practically an entire failure. We do not expect to have any Hungarian to offer during Spring of 1918.

**Siberian Millet.** A fine variety from Russia, earlier than either German Millet or Hungarian, and consequently very valuable for the North and yields remarkably. It is extremely hardy, withstanding drought wonderfully and is about two weeks earlier than the German Millet. The leaves are very tender, making it excellent for hay. The South Dakota Experiment Station pronounces it "the most promising variety yet tested." The plant stools to a remarkable degree, as many as thirty to forty stalks have been grown from one seed, and is not subject to rust. Crop very short, we advise early orders. For prices see note at top of first column.

**Kursk Millet.** This variety was first introduced to the farmers of the United States from Kursk, Russia, in 1898, after which extensive experiments were conducted at both South Dakota Stations, demonstrating the superiority of this new variety. Results since then have been more gratifying. It ranks very high both as a hay and seed producer, and in dry years the weight and quality of hay have been far superior to other sorts. In favorable seasons, so much difference is not apparent, but it has always been in favor of Kursk Millet. While on moist lands, the German or other southern varieties are recommended, for dry sections we urge the planting of Kursk Millet, knowing that it will produce the results claimed for it. For prices see your nearest dealer that handles our brands of Millet seed.

**Japanese Millet.** Improperly called "Billion Dollar Grass." Entirely distinct from all other Millets. It grows from 6 to 9 feet high, stands up remarkably and yields enormous crops. When cured it makes good hay and in quality is superior to corn fodder. It is relished by all kinds of stock. It may be sown broadcast at the rate of 15 lbs. an acre, but it is better to sow in drills 12 to 18 inches apart, using 10 to 12 lbs. to the acre. Cultivate until the plant is 18 inches high, when its rapid growth will smother all weeds. It does best on low, moist ground. For prices see note at top of first column.

**Hog or Broom Corn Millet.** This is grown for the same purpose for which other Millets are sown, and makes fair hay if cut very young. It, however, yields enormously of seed, even 60 to 70 bushels to the acre, and this seed is very advantageously used for fattening swine and other stock, and is of special value for this purpose in sections where corn cannot be safely or cheaply grown. Seed also makes very fine feed for poultry and young chicks. It is very similar to the Early Fortune Millet, except that the seed is yellowish white in color. It will mature in about two months from sowing the seed. For prices see the dealer in your town who handles N. K. & Co.'s Seeds, or write to us.

**Early Fortune Millet.** A most promising variety, of which is very early, and is claimed to be rust proof, and that chinch bugs will not eat the plant. The seed is very beautiful and distinguished in appearance and is of a beautiful red color. The seed is two or three times the size of German Millet. This variety heads in from 25 to 35 days. It gives a large yield both of seed and fodder. It can be fed to horses and other stock without injury, even when cut so late that the seed has formed. The seeds are smooth, the heads are branching, and in other respects this variety is similar to Hog Millet except for the color of the seed. For prices ask your own dealer who handles our brands for latest values. If your merchant does not handle our Millet, write to us.

See opposite page for further information on Millets.  
All Grass and Field Seeds are shipped at purchaser's expense. See page one for general information, suggestions to customers and parcel post rates.



Broom Corn and Kursk Millet Seed Heads.

## Where to Buy N. K. & Co.'s Seeds.

To make it convenient for the many thousands of seed buyers in the thirteen states tributary to Minneapolis to secure our line, arrangements have been made with nearly twenty thousand dealers to handle our seeds. They can sell you anything listed in this catalogue at as low a price as if you sent direct to us, making due allowance for freight. If no merchant in your locality sells our seeds, write us.

## MILLET

The varieties of Millet are among the oldest of cultivated grains. A large part of the world's inhabitants subsist upon the different Millets, especially in Africa, Turkey, Persia, India and Japan. However in our country we are chiefly interested in the use of Millet as a stock food.

Millets are especially adapted to regions of light rainfall and hot weather. They are used principally for forage, being very valuable where Timothy is an uncertain crop. The hay is fed most satisfactorily to dairy cows and sheep. In feeding value it ranks well above Timothy.

**Culture.** Millet does best on rich soils, full of humus, or vegetable matter, where the seed bed is fine and well prepared. It is not suitable for stiff clay or cloddy soils, which would cost too much to prepare for this crop. When sown in hot weather Millet is especially good to subdue weeds.

It is also used as a catch crop after early grain or a crop which fails. In a dry district the ground is better if it is double-disked without plowing, after which it should be harrowed and the Millet drilled in; or if the soil has been unplowed for a long period, it may be plowed after the double-disking. Summer fallow or land plowed late the previous Fall, is of course, likely to be in excellent condition for Millet and will only require to be lightly disked and harrowed before drilling.

Millets are sown about the same time that Corn is planted but may be sown somewhat later if they are to be grown for hay or soiling. They should never be sown until continued warm weather is certain. None of the small seed varieties should be sown deeper than three-quarters of an inch if the ground is moist. The seed may be sown broadcast, or preferably with a narrow tread drill. Sow about 25 lbs. of seed per acre for hay and slightly less than that for seed. Moist clay soil requires more seed than light sandy soils since the seed does not germinate so well. The best seed is produced from Millet sown thinly in drills and cultivated between the rows. Millet should never be sown until the earth is warm in the Spring and when continued warm weather is assured.

Millet is one of the best crops for immediate planting on new land on first breaking. Unless the sod is very stiff the crop can be sown soon after the former is turned over.

Cutting for green food may begin as soon as any large number of heads appear and may continue until the crop is ready to make into hay. The best hay is obtained by cutting just as the Millet starts to head out, say when one-quarter to one-half the heads are out. If German Millet or other Millets grown for hay are cut too early they lack "body," that is, weight and full feeding value. If cut too late, the stems become woody, the seeds shatter and the hay is sometimes dangerous to feed. If the seeds are ripe it may cause kidney trouble in feeding any animals but sheep. A tedder can be very profitably used in curing the hay. It should be well dried before putting into mow. If allowed to stand in the field cock for sometime, it should be opened up to the sun before hauling into the barn. When Millet is grown for seed, it may be harvested and handled like any grain.

In all cases of harvesting for the seed, Millet is best handled if cut and bound with a binder. The bundles should be placed two by two in narrow shocks. Even when intended for hay, many of the Millets can be cut with the binder in dry weather. Ordinarily, however, harvesting for forage is best done with the mower or self-rake, leaving the Millet to cure dry in the swath or bunches, after which it is cured in cocks before stacking or housing.

## PERMANENT MEADOW AND PASTURE MIXTURES

We ask purchasers to observe that we are able to offer the following mixtures at reasonable figures, only from the fact that we make up large quantities before the commencement of the season, therefore nothing can be taken out. In all these mixtures we are introducing small quantities of Alfalfa seed with the idea of inoculating the land with the Alfalfa bacteria. Alfalfa revolutionizes farming but the bacteria must be established before the revolution can occur. We cannot afford to add anything to these mixtures on account of the slight margin upon which we have figured. We shall be glad, however, to make estimates upon any special mixtures desired by our patrons. Our recommendation for quantity to the acre is fixed on the basis of good, fair seeding. The quantity can, of course, be spread over more or less ground as the case may demand. 25 lbs. supplied at the 100 lb. rate.

These are mixtures we can "stand by." We can make up lower priced mixtures if desired but the cost of the seed is so small, compared with the value of a good meadow, that it would not usually pay to plant anything but the best mixture obtainable.

**Prices.** As the prices of each of the grasses which make up these mixtures vary greatly during the season, it is not possible to quote values here. Ask your dealer who handles our seeds or write to us.

### Mixtures for Permanent Meadows.

**No. 1. For dry and high land.** Contains Red Top, Medium Red, Mammoth Red and Alsike Clovers, Alfalfa, Timothy, Orchard Grass, Perennial Rye Grass, Meadow Fescue, Hard Fescue, Canada Blue Grass, Kentucky Blue Grass and Slender Wheat Grass. Sow 20 to 30 lbs. to the acre.

**No. 2. For good land neither too wet nor too dry.** Contains Orchard Grass, Medium Red and Alsike Clovers, Timothy, Meadow Fescue, Perennial Rye Grass, Hard Fescue, Sheep's Fescue, Alfalfa, Kentucky Blue Grass and Red Top. Sow 20 to 25 lbs. to the acre.

**No. 3. For moist and wet land.** Contains Red Top, Timothy, Alsike and Medium Red Clover and Tall Fescue. Sow 20 to 25 lbs. to the acre.

### Mixtures for Permanent Pastures.

**No. 4. For good high and dry land.** Contains Orchard Grass, Hard Fescue, Sheep's Fescue, Timothy, Perennial Rye Grass, Medium Red, Mammoth Red and White Clover, Kentucky Blue Grass, Canadian Blue Grass, Meadow Fescue and Alfalfa. Sow 25 to 35 lbs. per acre.

**No. 5. For good land neither too wet nor too dry.** Contains Orchard Grass, Sheep's Fescue, Timothy, Perennial Rye Grass, Red, Alsike and White Clover, Alfalfa, Kentucky Blue Grass and Red Top. Sow 25 to 35 lbs. per acre.

**No. 6. Especially for prairie conditions.** Contains Slender Wheat Grass, Canada Blue Grass, Kentucky Blue Grass, Red, White and Alsike Clover, Alfalfa and Bromus Inermis. 30 to 40 lbs. per acre.

Descriptions of each variety of grass mentioned above will be found on pages 97 to 101.



A

Field of  
German Millet.

This Field was Grown  
from True Southern Grown  
Seed. Note the Heavy Growth.

### MILLET SUPPLY FOR 1918

The millet crops last fall were very short of normal, especially was this true in the North, and the South suffered as well. Early frosts killed or damaged large acreages and cold, wet weather ruined much which was intended for seed. Under each heading we give briefly, the prospects at the time this is written.

#### German Millet

All of our German Millet comes from the South. The same conditions which have reduced the corn crop have also greatly limited the yield of German Millet. We have secured, however, a fairly good stock of first class seed and in the absence of other varieties and because of the shortage of sufficient seed corn this Millet should be seeded more liberally than usual.

#### Common Millet

Supply limited but probably enough for ordinary requirements. German Millet is of much better quality and will produce more and better hay.

#### Hungarian Millet

A total crop failure and will be unobtainable for spring planting.

#### Siberian Millet

A very short crop and will be practically out of the market. The same is true of Kursk Millet. Sow German Millet in place of these.

#### Japanese Millet

A good crop and plenty for all. Those who prefer this variety will not be disappointed in securing seed as in some former years.

## PERMANENT MEADOW AND PASTURE MIXTURES

### Northrup, King & Co.'s Combination Grass and Clover Mixture.

#### For Both Hay and Permanent Pasture

It affords enormous crops of hay of the finest quality and highest feeding value, and after this has been cut furnishes continuous and abundant pasture of the richest and most nutritious character until Winter sets in. It will stand for years and may be used either for pasture exclusively or hay and pasture, as varying conditions may suggest.

We stake our reputation on this mixture, not only as to the purity and germination of the seeds used, but as to the satisfaction it will give to those who purchase.

Contains Mammoth Red, Medium Red, Alsike and White Clover, Alfalfa, Timothy, Kentucky Blue Grass, Meadow Fescue and Perennial Rye Grass.

Owing to the deep rooting and spreading character of many of the varieties employed, fields sown with this mixture, will, during periods of drought, look fresh and green while other meadows and pastures are dry and burned.

Quantity—We recommend at least 40 lbs. to the acre.

#### Brush Pasture Mixture.

The modern farmer and stockman does not dig grubs and stumps from brush lands, the expense of muscle and money is too great to warrant the cost. After the wood from such lands has been cut and sold, he seeds the field to tame grasses and Clovers which soon take possession of the soil, when it is pastured with sheep, horses and other stock. During the time of pasturing the roots and stumps will decay and thus the brush lands are made profitable from the beginning at very low cost.

Brush Pasture Mixture contains a variety of seeds such as Blue Grass, Red Top, Alsike, Red Clover and Alfalfa seed, etc., which will thrive on cut-over lands. This is a valuable and practical addition to our list of mixed grasses. If there is considerable brush on the land cut in July or August. Then sow the seed as freely as seems desirable. It may be mentioned that brush cut at that time rarely grows again.

#### Bottom Land Grass Seed Mixture.

Since the advent of county ditches, drainage canals and government projects for the reclaiming of thousands of acres of swamp land throughout our country, there has been a great demand for a grass seed mixture which will thrive on this class of soil. We recommend this mixture with full assurance that it will give satisfaction. Our trials have demonstrated this beyond a doubt. There is no tame grass which will grow in standing water, but on moist bottom lands good results will be obtained.

**Prices.** Values can not be named when this page goes to press, but for latest quotations ask your dealer or write to us.



# LIQUID and DUST SPRAYERS.

Timely spraying will save your fruits, vegetables and flowers.

## Spraying Suggestions.

For sucking insects that live on plant juices—such as scales, lice and aphids, use Fir Tree Oil Soap, Fish Oil Soap, Kerosene Emulsion, Lemon Oil Co.'s Insecticide, Lime-Sulphur Solution, Nico-Fume Liquid, Sulpho-Tobacco Soap or Tobacco Extract. See page 104 for particular information on each. To kill chewing insects that eat the leaves or fruit—for example, currant worms, canker worms, apple worms (codling moth) and cabbage worms, apply Arsenate of Lead, Bug Death, Hellebore, Paris Green or Slug Shot. For Cutworms use Cutworm Food or Paris Green. For blight and diseases use Bordeaux Mixture, Formaldehyde, Grape Dust or Lime-Sulphur. See page 104.

## Auto-Spray No. 1.

A compressed air sprayer warranted against mechanical defect and guaranteed satisfactory. We have offered this sprayer for many years and with increasing success. We find the machine thoroughly dependable. Compressed air sprayers far excel the old style bucket or knap-sack devices and combine every point of excellence in a spray machine. The sprayer is first loaded two-thirds full of solution and air is then compressed in the remaining third. The compression of the air forces out the solution in the form of a fine mist or spray. It is perfectly simple and thoroughly durable. A few strokes of the plunger will operate the machine for several minutes.

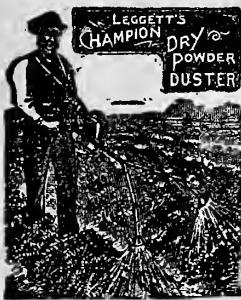
**Uses**—It is used for spraying trees and plants, green houses, poultry houses, washing windows or wagons, as a fire extinguisher, for spraying cattle to keep off flies, for spraying lawns to eradicate dandelions, in fact for every spray purpose. Three lengths of extension are recommended for tree work. The Auto-Spray No. 1 is used by nearly, if not all, the state experiment stations, and by the United States Government, and it is used and recommended by thousands upon thousands of agriculturists and horticulturists throughout the world.

**Styles**—The Auto-Spray is built in four styles, as priced below. We recommend the Brass Auto-Spray No. 1-B, because it will resist the action of all spray solutions, and the Auto-Pop with nozzle cleaner, is the only self cleaning device on the market. Shipping weight, 15½ pounds.

**Prices**—Our prices on all sprayers include packing and delivery to express or freight office at Minneapolis, purchaser to pay transportation. Where seeds are to be sent at the same time, a sprayer can usually be put in without any appreciable extra charge for transportation. With every sprayer is furnished complete instructions for use and formulas for emulsions, disinfectants, etc., the materials for which can be obtained cheaply at any drug store.

Auto-Spray No. 1-A, Brass Tank with Stop Cock	\$9.50
Auto-Spray No. 1-B, Brass Tank with Auto-Pop (recommended)	10.00
Auto-Spray No. 1-C, Galvanized Tank with Stop-Cock	6.25
Auto-Spray No. 1-D, Galvanized Tank with Auto-Pop	6.75
Auto-Pop No. 1 is a patented shut off device with self-cleaning attachment. Operating the lever opens or closes the valve and cleans the nozzle aperture automatically. Supplied separately.	\$1.75
Brass 2 ft. Extension, each	.75
Brass Elbow Extension, each	.50
Two Row Attachment	1.50
Strainer, for Auto-Spray, No. 1. Solid Brass	1.20

## DRY SPRAYERS.



### Leggett's Champion Duster.

Distributes Paris Green, Hellebore, Sulphur, Etc. Dispenses with all bother and labor of using water. For Farm, Garden, Vineyard, Tobacco Fields, Etc.

This implement has proved itself "Champion," being far ahead of any other machine in its capacity to distribute a uniform and almost imperceptible quantity of Paris Green, or other powder, doing effective work without injuring the foliage when used properly. The dry method is rapidly superseding liquid sprays.

Will green two rows of potatoes at once as fast as a man walks.

Machine weighs about six pounds. Without tubes it is 27 inches long. Each machine includes four sixteen inch tubes, six nozzles and two straps. Weight cased, 17 lbs. The reservoir holds over a quart of powder, equal to about 4 lbs. of Paris Green.

Price, \$9.50; by express or freight at purchaser's expense.

### Champion No. 2.

This duster is the same in its operation and arrangement as the regular Champion, but is a little larger and more powerful. It is particularly used and recommended for the distribution of powdered arsenate of lead, having an 8-inch Fan Box, which increases the air blast. The extra attachable reservoir increases its holding capacity. Weight about 8 pounds. Cased, with all attachments complete, 22 pounds. Price, \$15.00.

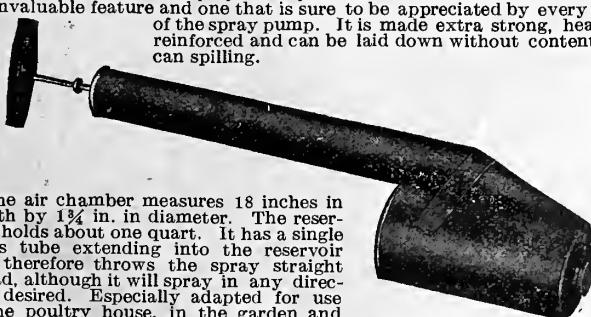
### Little Giant Duster.

Distributes any dry powder, Paris Green, etc. to perfection. This method has long ago passed the experimental stage, and highest authorities sanction it. Dust potato vines as fast as you walk, two rows at a time. Reservoir holds nearly a quart of powder. Machine weighs 6 lbs. One packed in a case complete, three tubes, five nozzles and strap. Cased for shipping weighs 15 lbs. Price, \$10.00; by express or freight at purchaser's expense.

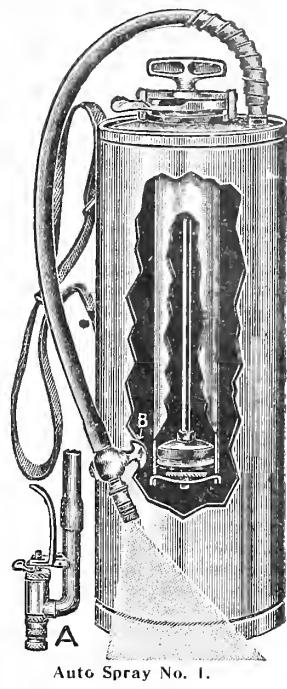
### Excelsior Single Tube Sprayer.

Sprays in any Direction.

An invaluable feature and one that is sure to be appreciated by every user of the spray pump. It is made extra strong, heavily reinforced and can be laid down without contents of can spilling.

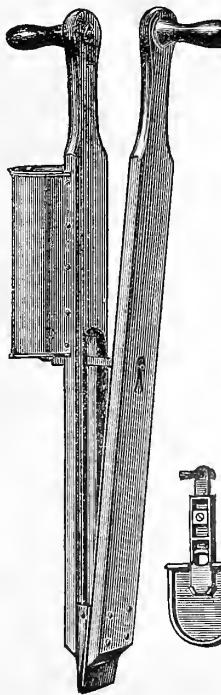
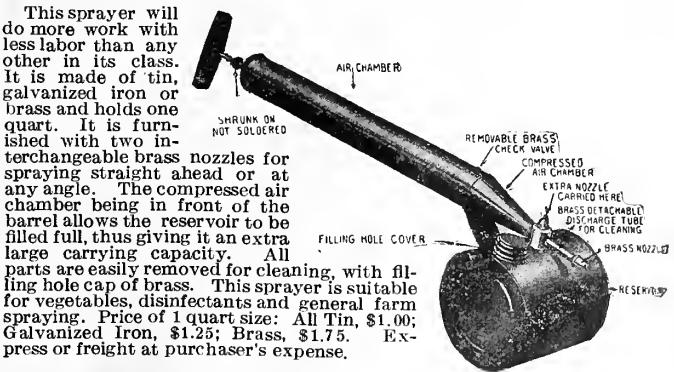


The air chamber measures 18 inches in length by 1½ in. in diameter. The reservoir holds about one quart. It has a single brass tube extending into the reservoir and therefore throws the spray straight ahead, although it will spray in any direction desired. Especially adapted for use in the poultry house, in the garden and orchard and on the farm. Price, 50c. Mailing weight 1 lb.



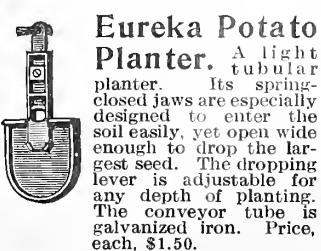
### Smith's "Junior" Continuous Sprayer.

This sprayer will do more work with less labor than any other in its class. It is made of tin, galvanized iron or brass and holds one quart. It is furnished with two interchangeable brass nozzles for spraying straight ahead or at any angle. The compressed air chamber being in front of the barrel allows the reservoir to be filled full, thus giving it an extra large carrying capacity. All parts are easily removed for cleaning, with filling hole cap of brass. This sprayer is suitable for vegetables, disinfectants and general farm spraying. Price of 1 quart size: All Tin, \$1.00; Galvanized Iron, \$1.25; Brass, \$1.75. Express or freight at purchaser's expense.



**Acme Corn Planter.** Works in any soil; has a flexible and adjustable iron drop, and does not wear the brush. It has an iron seed box and iron channel. The foot is made of polished steel. It is well made, strong, durable, reliable and gives universal satisfaction. Price, \$1.00; with pumpkin seed attachment, \$1.25.

**Triumph Hand Corn Planter.** A pioneer implement in this line and one that has always been popular. It is light and easily handled, yet strongly made, and with reasonable care, should last a long time. It works on any soil and never clogs. The operator can see the corn deposited in the ground. Price, \$1.00. When desired we furnish the Triumph Planter with an extra compartment in lower end of hopper, and an additional seed slide for planting pumpkin seed at the same time with corn. Price, \$1.25.



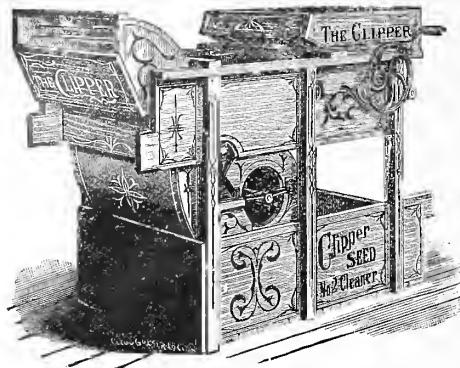
Acme Corn Planter.



**Eureka Potato Planter.** A light tubular planter. Its spring-closed jaws are especially designed to enter the soil easily, yet open wide enough to drop the largest seed. The dropping lever is adjustable for any depth of planting. The conveyor tube is galvanized iron. Price, each, \$1.50.

Potato Planter.

## "Clipper" Grain and Seed Cleaner Unexcelled for Farm Use.



For a quarter of a century we have used "Clipper" Grain and Seed Cleaners in our warehouse and they have played an important part in sustaining and enhancing the reputation of Northrup, King & Co. for selling clean, plump seeds of high quality.

We have tested every Fanning Mill on the market, and find the "Clipper" excels them all.

These cleaners are first class in every respect. They are equipped with the best outfit of screens ever sent out with a farm mill. You can make any separation on the Clipper, based on difference in sizes of seeds or grains, that can be made with screens, and the vertical air blast will make separations based on difference in weight that would be impossible with most other machines.

### How the "Clipper" Eradicates Weeds.

One reason your fields choke up with weeds is because you sow them with your seed. The way to get rid of the weeds is to clean your seed with the "Clipper" before sowing.

It will take out weed seeds, light, dead seed or grain, and help insure an even stand of strong, plants, increasing the yield an acre, and the grade as well. That means more profit and a larger bank account, at the end of each season.

### What the "Clipper" Will Do.

The "Clipper" will clean all classes of grain and seeds, such as wheat, corn, oats, barley, rye, beans, peas, buckwheat, kaffir corn, cane seed, millet, clover, alfalfa, timothy, mustard, flax, etc., and is suitable for farm or general use. Unlike other mills, the "Clipper" cleans all classes of seeds and grains in one operation. Effectual separation of plantain from clover seed is accomplished, removing imperfect and foreign seed, as well as cleaning the perfect seed, and any other separation that from its nature is not impossible. It is the best hand mill made for grading seed corn.

The new, improved No. 1 B "Clipper" Mill embodies many new features, includes a revision and addition to the screen assortment making it suitable for practically all kinds of work.

The perforated zinc screens are graduated in 64ths of an inch in both round and oblong holes. The woven wire screens are made of plated wire with the meshes uniform and true to count. The zinc screens will not rust and our plated wire screens will last for years if properly cared for. An illustrated instruction booklet showing how to use all the screens, sent free upon request.

Every "Clipper Mill" is guaranteed, both as to material and workmanship. They are built by competent, skilled workmen and nicely finished in three coats of paint and varnish.

Every farmer ought to own a "Clipper Mill." It will pay for itself over and over again by the increase in crop yields and improvement in quality. If more information is desired we will mail "Clipper Leaflet" free, on request.

### Exclusive Features.

The "Clipper" will handle seed wheat at the rate of 20 bushels an hour and clover seed at the rate of 10 bushels an hour. No other Fanning Mill on the market will dispose of grain and seed so rapidly and well.

When you buy a "Clipper" you get necessary attachments without extra charge, including two wire and ten perforated zinc screens, equipped with separating boards.



### Sterling Broadcast Seed Sower.

This has the following special features:

A slant feed board—keeps hopper properly filled.

Automatic feed adjustment—starts or stops flow instantly.

Oscillating feed Agitator—positive force feed—can't clog.

Patent distributing wheel—no soldered joints, full regulation size, scatters seed evenly always.

Triple gears. All adjustable.

Large hopper—unequalled capacity, yet easy to handle.

Well known for its accuracy in all broadcast seeding—fertilizer and all seed

Carried comfortably by a strap over

shoulder—not around neck—and is shaped to fit the body.

that can be sown broadcast. This seeder will sow any seed that is sown broadcast, such as oats, wheat, rye, flax, millet, clover, timothy, grass seed, etc. It can be very readily adjusted to suit the seed being sown. The feed plate and agitating device are of heavy sheet steel and all adjustments of spring steel. The hopper is of heavy duck and holds about one-half bushel. This machine has also a patented interlock, double flange, non-solder-joint distributing wheel, which is itself worth the price of the seeder. It will be found the strongest, neatest and most compact hand seed sower made. By freight or express, \$1.75, customer to pay transportation. Mailing weight, 6 lbs.

### Cahoon Seeder.

Larger in size than the Sterling Sower and will distribute the seed over a slightly larger area. One of these machines will last a life-time.

It will seed evenly, 4 to 6 acres an hour. It will scatter the following distances; wheat, barley, rye, 25 ft., clover and timothy, 18 to 20 ft. The bag and hopper hold about 22 qts. Price, each, \$3.50. Mailing weight, 7½ lbs.

Your dealer can supply you with anything listed in this catalogue. If he prefers otherwise, write us.



Cahoon Seeder.

The screens are so arranged as to be in plain view and of easy access to the operator while the machine is in operation.

Vertical air shaft, through which the draft passes upward, carrying chaff, dust, etc., through dust hood, another "Clipper" device.

The vertical air blast is a feature that no other cleaner has and it makes possible some very difficult separations that can be made in no other way. For instance, when cleaning seed grains, if the blast is properly regulated and the mill turned just fast enough, all the light shrunken kernels can be blown out or separated, leaving only the largest, heaviest, plumpest grain which is the choicest kind of seed and this passes into the grain box.

The grain box has a lifting board at the end, which allows the contents to be easily scooped into sacks. This grain box is highly important, as it prevents waste, makes sweeping floors unnecessary, and is just the place to store the screens and all detached parts when not in use. The steel shafting of the fan has a cone pulley, which enables you to change the speed of the fan to suit the varying weights of grains and seed.

To everyone desirous of obtaining a first-class, inexpensive and durable mill, for general use, we recommend the "Clipper."

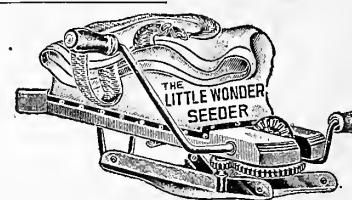
Endorsed and used by State and Government Experiment Stations.

### Important Announcement.

We have arranged with the manufacturers for the sale of the "Clipper" Grain and Seed Cleaner, in the states of Minnesota, North Dakota, South Dakota, Iowa, Montana and Northern Michigan.

Price. No. 1 B. "Clipper", \$30.00 f. o. b. Minneapolis. Shipping weight, 185 lbs. Full directions for operating sent with every cleaner.

The No. 2 B "Clipper" is a hand power cleaner and differs from the 1 B only in size and capacity. It is designed especially for cleaning all kinds of fine seeds, such as clover, timothy, alfalfa, millet, flax, red top, blue grass, etc., and will clean about 5 bushels more of grass seed per hour than the 1 B. This size will do any work that can be done on a No. 1 B, but it is not recommended as a grain cleaner if it is to be operated by hand, as more power is required than on grass seeds. We can furnish a driving pulley, however, for 75c, postpaid. Twelve seed screens are furnished with this mill. Price. No. 2 B. "Clipper" Seed Cleaner, \$38.00 f. o. b. Minneapolis. Extra screens for No. 1 B, each, \$1.75. Extra screens for No. 2 B, each, \$2.00.



### Little Wonder Seed Sower.

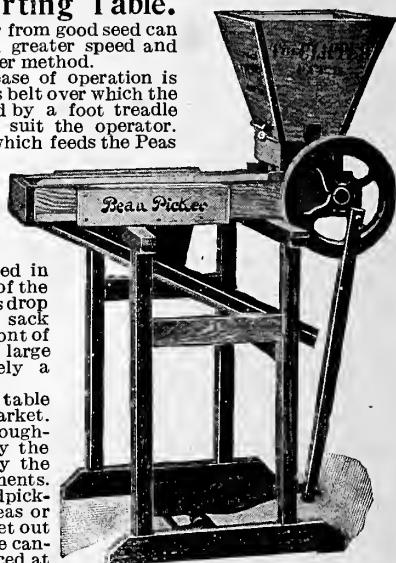
A low priced sower that is well built. The bottom board is an inch thick. The sower does good work and gives satisfaction. Price, \$1.50, shipped at customer's expense. Mailing weight 5 pounds.

### "Clipper" Bean and Pea Picking and Sorting Table.

The work of separating poor from good seed can be done very accurately with greater speed and less expense than by any other method.

From the illustration its ease of operation is readily apparent. The canvas belt over which the Peas or Beans flow is operated by a foot treadle and may be run at a speed to suit the operator. This also works an agitator which feeds the Peas or Beans on the belt in the proper quantity. As the seed passes towards the operator, who remains seated during the work, the discolored, broken or otherwise unsuitable seeds may be quickly and easily removed and placed in the receptacles on either side of the belt. The good Peas or Beans drop into a spout and run into a sack which may be placed at the front of the machine. The hopper is large and will hold approximately a bushel of seed.

We consider this picking table the most satisfactory on the market. There are thousands in use throughout the country; not only by the small grower or farmer, but by the large seed growing establishments. Its cost will be saved by handpicking a very few bushels of Peas or Beans. There is nothing to get out of order or wear out, except the canvas belt which may be replaced at a trifling expense. Our price with large hopper is \$10.00, f. o. b. Minneapolis.

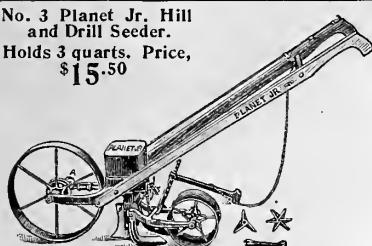


The "Clipper" Foot-Tread Pea and Bean Picking and Sorting Table.

## PLANET JR. FARM AND GARDEN TOOLS.

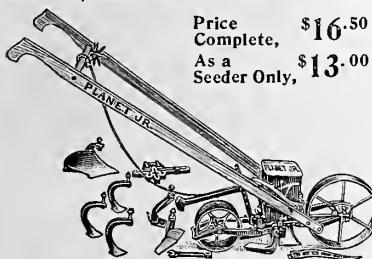
It will pay you to use Planet Jr. Tools. They do the work of three to six men—do it better, give bigger results, and last a lifetime. Over two million farmers and gardeners are using them. Join their ranks now and share their success. Fully illustrated Catalogue of Planet Jr. Garden Tools mailed free on request.

No. 3 Planet Jr. Hill and Drill Seeder. Holds 3 quarts. Price, \$15.50



We recommend customers to buy separate Seeders and Wheel Hoes where they have enough work to warrant it. No. 3 sows in hills 4, 6, 8, 12 or 24 in. apart or in a continuous row. A favorite among onion growers and market gardeners.

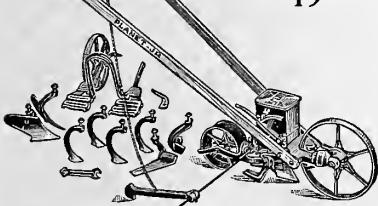
No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow.



Price Complete, \$16.50  
As a Seeder Only, \$13.00

Soon pays for itself in the family garden as well as the larger acreage. Sows all garden seeds (in drills or in hills), plows, opens furrows and covers them, hoes and cultivates.

No. 25 Planet Jr. Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow. Price, \$19.50



A splendid combination for the family gardener, onion grower, or large gardener. Is a perfect seeder, and combined double and single wheel-hoe. Capacity—2 acres a day.

No. 31 Planet Jr. Seeder and Wheel Hoe. Holds one quart. Price Complete, \$11.00

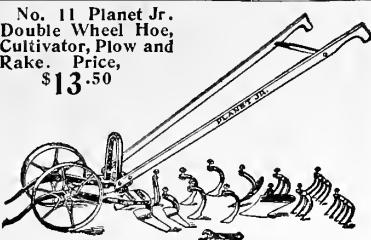


No. 32. As a Seeder only, \$8.75

The ideal tool for a small garden, combining a Seeder that will sow even a paper of garden seeds, with a light running Single Wheel Hoe. Sold also without the Seeder (No. 33 Wheel Hoe.) Price \$5.00.

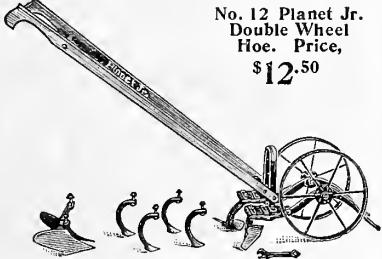
No. 28, Hill and Drill Seeder, Single Wheel Hoe and Cultivator. . . . . \$22.50  
No. 29, Hill and Drill Seeder, plain, (as a seeder only) . . . . . 18.50  
No. 30, Single Wheel Hoe, Cultivator, Plow and Rake . . . . . 12.00  
No. 6, Hill and Drill Seeder and Single Wheel Hoe . . . . . 22.00  
No. 6, Hill and Drill Seeder, plain, (as a seeder only) . . . . . 18.50  
No. 36, Single Wheel Hoe . . . . . 9.00  
No. 5, Hill and Drill Seeder . . . . . 18.50  
No. 1, Combined Drill Seeder and Wheel Hoe . . . . . 13.00  
No. 13, Double Wheel Hoe . . . . . 7.25  
No. 14, Double Wheel Disc Hoe, complete . . . . . 12.00  
No. 13½, Double Wheel Disc Hoe, plain . . . . . 9.00

No. 11 Planet Jr. Double Wheel Hoe, Cultivator, Plow and Rake. Price, \$13.50



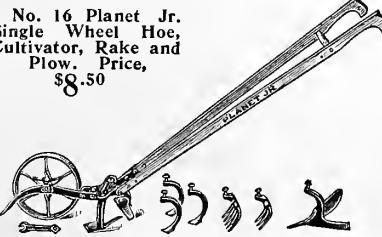
A single and double wheel-hoe in one. Straddles crops till 20 inches high, then works between. The plows open furrows and cover them. The cultivator teeth work deep or shallow. The hoes are wonderful weed-killers. The rakes do fine cultivation and gather up trash. Unbreakable steel frame, 14 inch steel wheels.

No. 12 Planet Jr. Double Wheel Hoe. Price, \$12.50



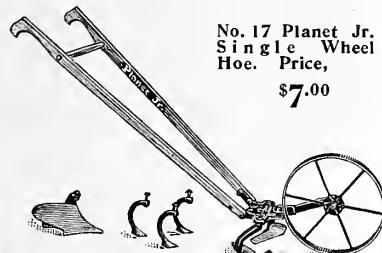
No. 12 is identical with No. 11, except that the 4½ inch hoes and rakes are not included.

No. 16 Planet Jr. Single Wheel Hoe, Cultivator, Rake and Plow. Price, \$8.50



The highest type of Single Wheel Hoe made. Light, but strong, and can be used by man, woman or boy. Will do all the cultivation in your garden in the easiest, quickest and best way.

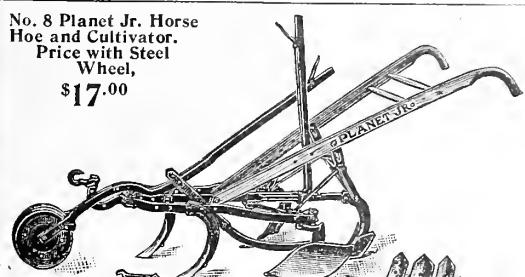
Indestructible steel frame. 15 inch steel wheel.



No. 17 Planet Jr. Single Wheel Hoe. Price, \$7.00

You can do more and better hoeing with it in one day than you can do in three days with a hand hoe. The No. 17 has a pair of 6-inch hoes, a plow and a set of cultivator teeth, an outfit sufficient for most garden work.

No. 8 Planet Jr. Horse Hoe and Cultivator. Price with Steel Wheel, \$17.00

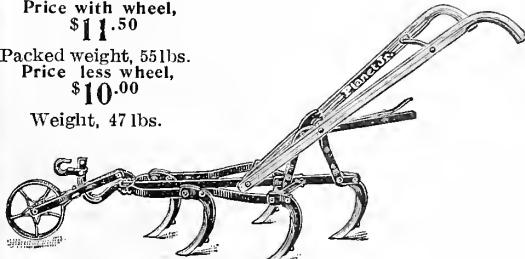


Strongly made, and capable of a great variety of work. Non-clogging steel wheel. Depth-regulator and extra long frame make it run steady. 5 inch turning shovels with bolt, 60c per pair.

No. 101 Planet Jr. Plain Cultivator. Price with wheel, \$11.50

Packed weight, 551bs. Price less wheel, \$10.00

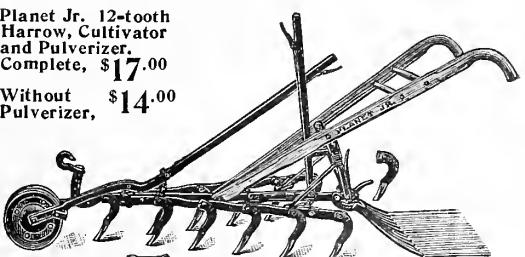
Weight, 47 lbs.



The Planet Jr. No. 101 Plain Cultivator is light yet strong, and one of the best tools offered.

Planet Jr. 12-tooth Harrow, Cultivator and Pulverizer. Complete, \$17.00

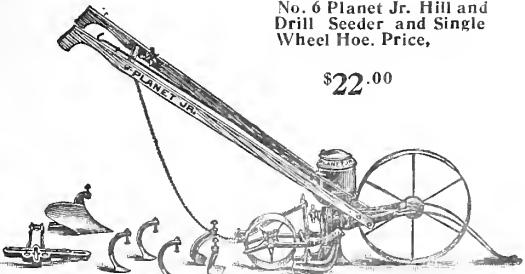
Without Pulverizer, \$14.00



Is invaluable to market-gardeners, truckers, tobacco and small-fruit growers. The twelve chisel-shaped teeth cut out all weeds, stir and mellow the soil without throwing dirt on plants, and the pulverizer leaves the ground in the finest condition.

No. 6 Planet Jr. Hill and Drill Seeder and Single Wheel Hoe. Price,

\$22.00



A favorite in some localities. Nos. 3, 4, and 25 cover practically the same ground and are less expensive. See price list below for No. 6 as a seeder only.

Our Price.	Our Price.
No. 17½, Single Wheel Hoe . . . . .	6.10
No. 18, Single Wheel Hoe . . . . .	5.25
No. 38, Single Wheel Disc Hoe, complete . . . . .	9.50
No. 18½, Single Wheel Disc Hoe, plain . . . . .	6.50
Firefly Garden Plow . . . . .	3.25
No. 19, Single Wheel Hoe . . . . .	5.25
No. 7, Horse Hoe and Cultivator, complete, with steel wheel . . . . .	16.00
No. 9, Horse Hoe and Cultivator, with steel wheel . . . . .	14.50
No. 9, Horse Hoe and Cultivator, without wheel . . . . .	12.50
No. 80, Horse Hoe, Cultivator and Hiller, complete, with steel wheel . . . . .	15.50



Flower Pot

Azalea Pot

Bulb Pan

## Red Clay Flower Pots.

Six at dozen rate, 50 at 100 rate.			
Each	Doz.	100	
2 inch	\$.01	\$.12	\$.65
2½ inch	.02	.15	.85
3 inch	.02	.20	1.10
3½ inch	.03	.25	1.35
4 inch	.03	.30	1.65
4½ inch	.04	.35	2.30
5 inch	.05	.45	3.10
5½ inch	.06	.55	3.85
6 inch	.07	.65	4.65
7 inch	.10	1.00	7.65
8 inch	.15	1.50	10.95
9 inch	.25	2.25	16.85
10 inch	.30	3.00	23.20
12 inch	.55	6.00	45.90

## Red Clay Fern or Bulb Pans.

With straight sides or with rims.

Each	Doz.	100
5 inch	\$.05	\$.45
6 inch	.07	.65
7 inch	.10	1.00
8 inch	.15	1.50
9 inch	.25	2.25
10 inch	.30	3.00
12 inch	.55	6.00

## Red Clay Azalea Pots.

Six at dozen rate, 50 at 100 rate.

Each	Doz.	100
5 inch	\$.05	\$.45
6 inch	.07	.65
7 inch	.10	1.00
8 inch	.15	1.50
9 inch	.25	2.25
10 inch	.30	3.00
12 inch	.55	6.00

## Water Proof Paper Flower Pots.

Six at dozen rate, 50 at 100 rate.

	Doz.	100	500	1000
2½ inch. (Mailing weight, 3 oz. per doz.)	\$.10	\$.35	\$1.60	\$3.00
2½ inch. ( " 4 oz. " )	.10	.40	1.85	3.50
3 inch. ( " 5 oz. " )	.15	.60	2.75	5.00
3½ inch. ( " 6 oz. " )	.15	.75	3.40	6.25
4 inch. ( " 7 oz. " )	.20	.95	4.40	8.25
5 inch. ( " 10 oz. " )	.25	1.30	6.25	12.00

## Natural Raffia.

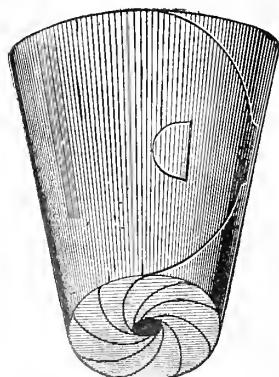
The best tying material for plants. Also used extensively in basket making in combination with Basketry Reed or Rattan. Price, lb., 35c. When sent by mail, add for postage at parcel post rates.

## Colored Raffia.

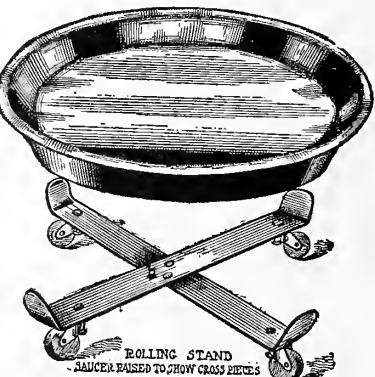
Valuable for fancy work in making baskets, bags, etc., usually with Reed or Rattan. The following colors are kept in stock at all times; red, dark green, purple, blue, brown, crimson, black, pea green and orange. Price, lb., \$1.00; ¼ lb. at the pound rate. Also put up in two ounce bundles at 15c each. When sent by mail, add for postage at parcel post rates.

## Basketry Reed or Rattan.

Nine sizes are carried in stock, besides the flat reed, the highest priced being the smallest in size. Put up in round bundles in various weights, ¼ lb. to 1 lb. each. By mail, add for postage at parcel post rates. No. 00 Round Reed, per lb., \$2.85 No. 4 Round Reed, per lb., \$1.00 No. 0 " " " 2.50 No. 5 " " " .80 No. 1 " " " 1.50 No. 6 " " " .70 No. 2 " " " 1.30 No. 7 " " " .65 No. 3 " " " 1.20 No. 6 Flat Reed " .80



Waterproof Paper Flower Pot.



Indurated Fiber Rolling Stand.

## Tree Tanglefoot.

Especially recommended against Gypsy, Brown-tail and Tussock Moth Caterpillars, Spring and Fall Canker Worms, Climbing Cut Worms, Bag Worms and Ants. For Gypsy and Brown-tail Moths. Apply as soon as snow is off the ground.

Tussock Moths. Apply before May 15th.

Spring Canker Worms. In the South apply about Jan. 1st, in the North about March 1st.

Fall Canker Worms. Apply in the South not later than Sept. 1st, in the North not later than Oct. 15th.

Climbing Cut Worms. Apply about May 1st.

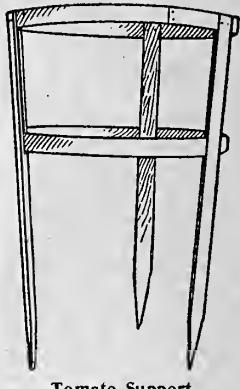
Prices. 1 lb. can, 50c; 3 lb. can, \$1.45; 10 lb. can, \$4.50; 20 lb. can, \$8.75; 25 lb. can, \$10.50. If ordered sent by mail add postage at parcel post rate, allowing ½ lb. extra weight to cover packing on each pound ordered.

## Rubber Plant Sprinkler.

This is the finest sprinkler made. It is durable, quickly and conveniently filled, throws a strong, fine spray, which thoroughly washes the foliage of the plants, removing dust and insects. Indispensable for floral work, window gardening and sprinkling clothes. Price, No. 1, \$1.25; No. 2, \$1.00; No. 3, 90c; No. 4, 75c. With angle neck permitting upward spraying, No. 1, \$1.25; No. 2, \$1.00. Mailing weight, 8 oz.

## Tomato Support.

Very valuable for keeping tomato vines off the ground. Will largely increase the yield and improve the quality of the fruit. Every gardener should have them. Each, 15c; dozen, \$1.65. F. O. B. Minneapolis.



Tomato Support.

## Square Plant Sticks.

Square Plant Sticks. For greenhouse or garden, strong and substantial.

	Doz.	100
1½ ft.	.25	\$ 1.50
2 ft.	.35	2.25
2½ ft.	.50	3.50
3 ft.	.75	5.50
3½ ft.	.85	6.50
4 ft.	1.00	7.50
5 ft.	1.35	10.00
6 ft.	1.60	12.00

## Japanese Cane Stakes.

Light, strong and durable, for tying up tall growing plants. Natural Green Dyed Doz. 100 \$ 1000

Natural	Green Dyed	Doz.	100	\$ 1000
50	100	1000	2½ feet	\$.15 \$ .85 \$ 8.00
6 feet	\$ 60	\$ 1.10	\$ 10.00	3½ feet .20 1.25 10.00
8 feet	1.25	2.25	20.00	4 feet .25 1.50 12.00
10 feet	1.85	3.50	30.00	5 feet .30 1.75 14.00

## Painted Tree Labels.

3½ inch iron wire. (Mailing weight, 3½ lbs. per 1000) \$ .20 \$ .75 \$ 1.35 100 500 1000

3½ inch copper wire. ( " " 3½ " " ) .25 .95 1.75

## Painted Pot Labels.

	100	500	1000
4 inch. (Mailing weight, 3½ lbs. per 1000) ...	\$ .15	\$ .60	\$ 1.00
4½ inch. { " " 4 " " " } ...	.15	.65	1.15
5 inch. { " " 4½ " " " } ...	.20	.75	1.35
6 inch. { " " 5 " " " } ...	.20	.95	1.65

## Painted Garden Labels.

	100	500	1000
8 inch. (Mailing weight, 2 lbs. per 100) \$ .55	\$ .55	\$ 2.50	\$ 4.75
10 inch. { " " 2½ " " " } .65	.65	3.10	6.00
12 inch. { " " 3½ " " " } .85	.85	4.00	7.50

## Indurated Fiber Saucers to use with Flower Pots.

Indurated Fiber is a wood pulp product, hardened by chemical process under great pressure. It is light, strong, waterproof, neat in appearance and is easy to keep clean.

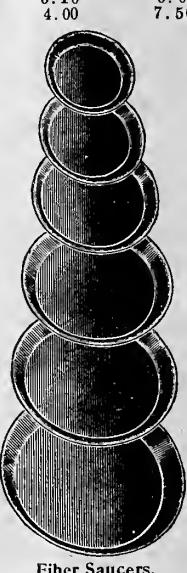
It is an exceptionally good material for flower pot saucers. Light, not easily broken, easy to clean. Will not sweat through and mould and its surface will not scratch woodwork, as earthenware does.

Each	Doz.	Each	Doz.		
5 inch	\$ .25	\$ 2.76	9 inch	\$ .33	\$ 3.60
6 inch	.27	2.83	10 inch	.35	3.84
7 inch	.29	3.06	12 inch	.42	4.56
8 inch	.30	3.24	14 inch	.53	5.76

## Indurated Fiber Rolling Stands for Heavy Plants in Tubs or Pots.

The device consists of two steel pieces securely riveted and equipped with casters; a strong and compact support for plants, which can be readily rolled about from place to place without injuring the floor or carpet.

Takes tub diameter at bottom.	Each	Doz.
12 inch for a 10 inch tub,	\$ .95	\$ 10.20
14 inch for a 11 inch tub,	1.15	12.60
16 inch for a 13 inch tub,	1.55	17.00
18 inch for a 15 inch tub,	1.85	20.00



Fiber Saucers.

# HIGH GRADE FERTILIZER AND LAWN DRESSING

Our prices include sacks and cartage to depot in Minneapolis. 500 lbs. of one kind at ton rate, except where 500 lb. or 1000 lb. price is quoted. We cannot break bags except as noted.

## Northrup, King & Co.'s Sterling Garden and Lawn Fertilizer.

Analysis: Ammonia, 2 per cent; available Phosphoric Acid, 10 per cent; Potash, 1 per cent.

It contains in the right proportions a concentration of the elements which nourish and feed grass into luxuriant growth. It produces a rich, green color, and insures a permanent evenness over the whole surface of your lawn. It is not unpleasant to handle, being odorless, and as it is dry and fine it is easily put on. Two or three applications in a season, at the rate of a pound to every hundred square feet, will keep your grass in flourishing condition—perfectly healthy and able to stand any amount of sun if watered.

**When and How to Put it on Your Lawn.** The first application should be in the early Spring—just as soon as the frost is out of the ground. Scatter it by hand carefully and evenly. Use from 10 to 15 lbs. per every 1000 sq. ft. or 400 to 500 lbs. per acre, and if it can be put on just before a rain, so much the better. If unable to do this, wet it down with a hose as soon as possible after applying. For new lawns, Sterling Garden and Lawn Fertilizer can be used to good advantage either alone, using 1000 pounds per acre, or in combination with sheep or cattle manure, working it into the soil before sowing the seed. See our Lawn Booklet for further information, sent free upon request.

**For Vegetables and Flowers.** Apply in early Spring at the rate of 15 lbs. per 1000 square feet, forked it in well. For late use, sprinkle it carefully around the plants and between the rows. Do not let it touch the plant roots. A teaspoonful or so stirred in the soil about the roots of each plant two or three times during the season will give you astonishing results. Always water plants thoroughly after fertilizing.

**For House Plants.** A teaspoonful of Sterling Fertilizer dissolved in a quart of water and this solution poured around the roots of house plants will greatly invigorate them. Stir solution while pouring so as to keep it well mixed, and apply as often as the plants seem to need it—say every week or ten days, or until they are as healthy as you wish.

Prices. 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.85; 100 lbs., \$3.50.

## Northrup, King & Co.'s Steamed Bone Meal.

Analysis; Nitrogen, 3.75 per cent; equal to Ammonia, 4.50 per cent; Phosphoric Acid (from bone), 23.00 per cent.

This is finely ground and of first quality; it starts to decompose quickly and continues for a long period its improvement in the soil fertility; it is less likely than other fertilizers to leach or waste. With bone there is no danger of burning the plants. Use 3 to 5 pounds of bone meal for each tree and vine when setting it out, working it in well around the roots.

**Lawns.** For new lawns, use 500 lbs. of bone meal with a ton of sheep manure per acre. This should be plowed under or spaded in, several weeks before sowing the seed. Old lawns, top dress very early in Spring with sheep manure and bone meal mixed, at the rate of 2200 lbs. per acre or 50 lbs. per 1000 square feet.

**Field and Garden Crops.**  $\frac{3}{4}$  to 1 ton broadcasted and harrowed in. This is especially desirable for use with sheep or cattle manure which is rich in nitrogen.

**Permanent Pastures and Meadows.** Use  $\frac{1}{2}$  to 1 ton per acre before growth starts in the Spring.

**Roses and Flowering Plants.** ground bone is one of the most useful forms from which to furnish both Nitrogen and Phosphoric Acid in slowly available forms. A good mixture for both the field and prepared soils is four parts of ground bone and one of muriate of potash, applied at the rate of four pounds per square rod, and preferably worked into the soil previous to setting the plants; a second application may be made in the Fall at the same rate. For pot plants use one part bone meal to 50 of soil. Price. 5 lbs., 25c; 10 lbs., 45c; 25 lbs., 85c; 50 lbs., \$1.65; 100 lbs., \$3.25. Ask for prices on large lots.

## Nitrate of Soda.

Quick in action; used for the nitrogen it contains. It creates rapid growth, is odorless and entirely soluble. It should be applied only when the plants are above ground, usually in combination with other chemical fertilizers. Nitrate of Soda is the best form in which nitrogen can be restored to the soil. It is of special value for early crops such as Peas, Corn, Beets, Cabbage, etc., when rapid maturity is essential, and of great benefit to hay and forage crops. Nitrate of Soda is a great stimulant for the production of Sugar Beets, Potatoes and Sorghum, also small fruits. For further information ask for Bulletin No. 172, sent free upon application. Market price.

## Sterlingworth Plant Tablets.

A clean, odorless, concentrated plant stimulant. They build up the soil scientifically, and make frequent renewal less important. Trial size box, sufficient for 10 house plants for three months, 10c, postpaid. Box sufficient for 35 plants for three months, 25c, postpaid.

**Gypsum or Land Plaster.** Excellent for mixing with fresh manure to "fix" the nitrogen. 100-lbs. \$1.25; ton, \$18.00.

From extensive official experiments conducted during the last fifty years, and the general experience of our customers with every variety of soil, crop, climate and market conditions, the following general applications have proved capable of returning more than 100 per cent net profit on the yearly fertilizer investment for each class of crop.

## Suggestions for Profitable Fertilizing

	Lbs. per Acre
Fertilizer for Grains	200 to 400
Fertilizer for Cotton	300 to 500
Fertilizer for Fruit	500 to 1,000
Fertilizer for Vegetables	800 to 1,600
Fertilizer for Tobacco	300 to 800
Fertilizer for Potatoes	300 to 500

If the same crop is grown on the land

## Sheep Manure.

Analysis: Ammonia, 2.50 per cent; Phosphoric Acid, 1.50 per cent; Potash, 1.50 per cent.

This is a splendid, complete fertilizer containing the necessary plant foods and is also rich in humus, or vegetable matter. It is excellent for general use either alone or in combination with other special purpose fertilizers. Having been kiln dried, there is little danger from weed seeds. It can be used freely as it is not likely to burn anything. Part of it is very soluble so its effects are usually apparent soon after the application and for a long time afterwards. It is carefully selected, dried, pulverized and screened.

**For Lawns.** It should be applied by sprinkling lightly over the grass, in the Spring and up to July 15th. It requires no raking in. The color is not conspicuous and there is no objectionable odor. This will nourish the grass, act as a mulch, and tend to prevent the lawn from burning in hot weather. Use 50 lbs. per 1000 square feet or 25 lbs. with 25 lbs. of bone meal. See note on bone meal.

**For the Garden.** After the crop has been harvested in the Fall, the garden should be given a good coating of Sheep Manure. In the Spring put on another light coat and turn it under, or sow lightly in the rows.

**For Truck Garden.** Sheep Manure is a good fertilizer for the truck garden, producing better and earlier crops of onions, celery and other vegetables. Price. Lb., 5c; 5 lbs., 20c; 10 lbs., 35c; 25 lbs., 75c; 50 lbs., \$1.35; 100 lbs., \$2.50. Ask for prices on large lots.

## Cattle Manure.

Analysis: Ammonia, 2.50 per cent; Phosphoric Acid, 1.50 per cent; Potash, 1.50 per cent.

A high grade, natural fertilizer for general use, air dried and prepared so that none of its soil enriching properties are lost. It is especially desirable for making new lawns as it not only contains the essential plant foods but also is rich in humus, or vegetable matter. There is no danger of using too much cattle manure as long as it is well distributed through the soil and does not come into direct contact with the plant roots.

This is an ideal preparation for run-down city gardens. It may also be advantageously used with special crop, chemical fertilizers as most of the latter become quickly consumed while the cattle manure is more lasting.

Use 500 to 2000 lbs. cattle manure per acre, or 12 to 40 lbs. per 1000 square feet, depending upon local conditions. Apply early in the Spring on your sandy or worn out soil.

Bag, \$2.25, 5 bags \$10.00. Special prices on large quantities. Delivered free within Minneapolis City limits in 1 to 5 bag lots.

## N. K. & Co.'s Sterling Fertilizer No. 3.

### For Seed Corn.

Analysis: Ammonia, 2 per cent; available Phosphoric Acid, 9 per cent; Potash, 1 per cent.

Seed corn is one of the most important crops of the Northwest and we doubt if anything will show a larger proportion of profit if properly handled. This special brand will produce results that will surprise you. Use 200 to 300 lbs. per acre. Price, 100-lb. bag, \$2.00; ton, \$37.50.

## N. K. & Co.'s Sterling Fertilizer No. 4.

### For General Farm Crops.

Analysis: Ammonia, 4 per cent; available Phosphoric Acid, 8 per cent; Potash, 7.50 per cent. A blend put up especially to meet the demand for a general purpose fertilizer. One that is suitable for all field, farm and grass crops. Distribute from 200 to 300 pounds an acre according to condition of soil. Price, 100-lb. bag, \$4.00; 200-lb., \$7.50.

## Swift's Vegetable and Beet Grower (2-10-1)

### Guaranteed Analysis

Equal to Ammonia.....2.00 per cent  
Phosphoric Acid, available.....10.00 percent

Potash (K<sub>2</sub>O, actual from Sulphate).....1.00 per cent

An all around truck brand. Also good for Corn, Wheat and Oats. Ton, \$45.00; bag, 125 lbs., \$3.00.

## Swift's High Grade Acid Phosphate. Guaranteed Analysis

Available Phosphoric acid 16.00 per cent

Valuable for Winter Wheat, Rye, Barley, Clover, Alfalfa, Field Beans Field Peas and all crops needing available phosphoric acid. Should be sown broadcast at a rate not to exceed 500 lbs. to the acre. Ton, \$28.00, Bag, 125 lbs., \$2.00.

## Swift's Special Grain Grower (2-12-0)

### Guaranteed Analysis

Ammonia.....2.00 per cent. Phosphoric Acid, available.....12.00 per cent.

This brand of fertilizer is recommended for Corn, Oats, Barley and Rye. An ideal fertilizer for the average Northwest soil. Apply 250 lbs. per acre. Ton, \$40.00; bag, 125 lbs., \$2.75.



Root of Grass Showing the Effect of Using Sterling Garden and Lawn Fertilizer.

for more than one year at a time, it pays handsomely to fertilize each year. If a crop of green clover or other legume is plowed under to supply humus and nitrogen, then the succeeding grain or hood crops can be even more profitably fertilized with a complete fertilizer to keep the soil in proper balance.

# NORTHRUP, KING & CO.'S STERLING POULTRY FEEDS

## Sterling Poultry Feeds.

Our Sterling Poultry Feeds are economical to use because they contain only good, clean materials mixed in the proper proportions to make balanced rations for your birds at every age.

They will help your baby chicks grow rapidly, develop strong constitutions and round out into splendid pullets and cockerels.

For full grown stock you must supply feed which will not only nourish their bodies but also enable them to lay eggs. Corn alone makes fat, but very few eggs. Use Sterling Poultry Feeds for the "full egg-basket."

**Prices.** Our poultry feed and supplies are now sold by thousands of dealers in Minnesota, Wisconsin, Michigan, Iowa, North and South Dakota and Montana, many of whom buy in carload lots. Ask your dealer for latest prices. If he does not handle our line write to us and we will see that you are supplied.

### Peep o' Day Chick Meal.

Reg. U. S. Pat. Off.

The ideal food for baby chicks. A scientifically balanced ration to nourish chicks perfectly. Contains the proper ingredients to make bone, muscle, and good red blood. Should be fed the first three weeks in combination with Sterling Baby Chick Starter. This may be fed wet or dry but dry feeding is recommended. Feeding directions on each package.

Northrup, King & Co.'s

### Sterling Baby Chick Starter.

To be fed the first three weeks.

A wholesome, ready prepared, starting food which will nourish the chicks so they can make rapid growth. Contains the necessary materials to form bone and feathers. Start feeding this when they are 36 hours old, give plenty of water and occasionally lettuce, or other tender greens. For the first few days the chick should be fed every few hours, just what they will eat up clean each time. Be careful not to overfeed. If chicks are in a brooder, scatter feed in Alfalfa meal or other clean litter so the baby birds will have to scratch for it. Avoid letting the chicks become chilled or overheated.

Sterling Baby Chick Starter is prepared both with and without grit.

Northrup, King & Co.'s

### Sterling Chick Feed.

For chicks three weeks old and over. Like our other Sterling feeds this mixture embraces a fine combination of seeds, millet and grains. It gives the chicks quick growth and tends to keep them in good health. To properly develop the chick, either for market or to become a producer of eggs it must be fed such food as will promote growth quickly and uniformly.

Use Sterling Chick Feed, clean utensils and see that brooding conditions are right. Provide some shade in the runs during warm weather, and give plenty of tender greens. If milk is used always feed it sweet or sour, but do not keep changing, or it will cause indigestion. Buttermilk gives fine results. Let your chicks have plenty of exercise, make them scratch for their feed, but do not let the old hen lead her small chicks all over the farm. Keep the mother penned up until the chicks get strong.

Sterling Chick Feed is rich in protein which makes flesh and blood; it contains plenty of organic ash, which builds up bone. This is put up both with and without grit. See note above about price.

Northrup, King & Co.'s

### Sterling Hen Feed.

A splendid, well balanced feed, containing several kinds of grain, and oil meal. This feed supplies the variety which hens need, since they always do better on a good mixture of grains than where just one or two are used. This is especially true of laying hens, and we strongly recommend this feed to everyone who desires to make the most out of his flock. Keep your hens exercising freely if you want them to lay eggs. Besides this feed the flock should be given oyster shell (or lime in some other form), charcoal and green food.

For winter egg production the flock should receive Sterling Hen Food twice daily and have access to Sterling Egg Mash, which supplies the protein the hens require to stimulate egg laying in the cold weather. Prepared both with and without grit. See note above about price.

Northrup, King & Co.'s

### Sterling Scratch Feed.

It is composed of grains and seeds, oil meal, etc. Each item is included in the proper proportion to make up a well balanced ration.

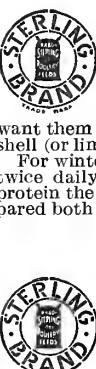
This mixture is a trifle lower in protein than our Sterling Hen Feed but contains more kinds of grain. Where the poultryman must buy all his feed it would be well for him to use both the Sterling Hen and Sterling Scratch Feeds for the sake of variety, feeding them alternately. For the man who raises part of his grain feed, either Sterling Hen or Sterling Scratch Feed would be satisfactory to use.

For winter eggs keep the hens on dry ground or indoors on deep litter where they will have to scratch for the grain. A busy, working hen will not become too fat. Sterling Scratch Feed will help your flock "shell out" eggs. Prepared both with grit and without. See above for price.

## "Profitable Poultry."

This booklet is a brief outline of poultry management, including housing, feeding, hatching and general care. It is prepared especially for the farmer and others who are interested in poultry as one branch of their business.

These booklets are 10¢ each. Upon request a copy will be included free with orders for poultry feeds or supplies.



**Alfalfa Meal.** Made from new crop, pea green, kiln-dried Alfalfa hay. This is more valuable than clover meal and is highly recommended by prominent and successful poultry men. It contains a large per cent of protein and furnishes green feed in Winter when green food is scarce. This may be mixed in with the mash, or moistened slightly with hot water. Then allow it to steam an hour before feeding. Alfalfa Meal is also widely used as litter for the brooder and chick pen since it is a good absorbent and does not injure the baby chicks if they eat it. Ask your dealer or write us for latest price.

**Blood Meal.** A standard high protein preparation. This is guaranteed pure, free from adulteration and objectionable odors. A small quantity should be fed to the poultry occasionally to keep them in good health. Ask your dealer for prices.

**Old Process Oil Meal.** Aids digestion and assimilation of food. As it contains 36% of protein, it is combined with grains and other food so as to make a balanced ration. Improves the health, vigor and appearance of poultry. This comes in two sizes. State whether you wish fine or pea size.

### Blatchford's Calf Meal.

This is a concentrated, dry substitute for milk which is being successfully used all over the country by dairy farmers and others who believe that milk is too valuable to feed to calves. This calf meal of milk-equal, when mixed with skim milk or water to the proper consistency is very similar to milk and contains all the elements of milk—protein, fat, and fiber, moisture and ash in the correct proportions. Every pound makes a gallon of sweet, wholesome milk equal. The expense is less than milk so it is economical to use. It is made from locust bean meal, pure flaxseed ground and with the oil left in, ground beans and peas, oil meal, cocoa shells, cocoanut meal, fenugreek, dried milk and salt.

### The Perfect Milk Substitute



Licks the Pail Clean

Northrup, King & Co.'s

### Sterling Crushed Oyster Shell.

Hens must have lime in some form to furnish egg shell material. If you are having trouble with your flock laying soft or thin shelled eggs you should start feeding Oyster Shell immediately to remedy this condition. Crushed Oyster Shell is practically pure lime carbonate so there is almost no waste. It also tends to keep the hens from eating eggs. Old egg shells should never be fed to poultry as this is likely to get them started in the habit of egg eating. When you buy 100 lbs. of Sterling Brand Crushed Oyster Shells, you get 100 lbs. of shells, not 15 to 20 lbs. of dust and dirt mixed in, as our brand is specially cleaned. Every poultry house or yard should have a pan or trough full, so that the fowls can have access to them at all times.

**Crushed Clam Shell.** Thicker and harder than oyster shell and is used quite extensively on that account, acting both as a food and a grit. The percentage of carbonate of lime is less than in Oyster Shells and is, therefore, less desirable, though the price is low. Ask your dealer for price or write us.

**Mica Crystal Grit.** Poultry, having no teeth should be kept constantly supplied with some sharp material to grind their food. Mica Crystal Grit is not only sharp and hard, but its properties are such that it acts as a tonic and contributes largely to the health and productive power of the fowl. Grit is just as necessary to newly hatched chicks as to older poultry as without it they cannot grind food. We have hen, pigeon and chick size. State which is wanted.

**Pearl Grit.** A clean, sharp grit containing elements both helpful and necessary for the proper nutrition of food and production of eggs. It is white in color and contains no dirt, causing no waste. Please state whether you want fine or coarse, when ordering.

**Crys-Co.** A grit and shell producer combined. It is composed of molluscan shell formation or petrified shell, crushed to the proper sizes for hens, chicks and pigeons. Contains 99 per cent pure carbonate of lime, and 1 per cent flinty matter, the lime forming shell, with enough grit to grind the food and aid digestion. It makes hard shells, thus increasing the hen's laying power. Hens that lay soft shelled eggs usually acquire the habit of eating them, but by the use of Crys-Co this danger will be largely overcome. Feed the same as Oyster Shells or grit. Please state whether you wish fine or coarse when ordering.

**Egg Testers.** It is desirable to test eggs after they have been in the incubator seven days, and again on the twelfth day, removing all those that are infertile or with a dead germ. The tester is also useful in candling eggs before selling them. This is made the proper size to fit a common No. 1 burner. Each, postpaid, 35c; by express or freight, at buyer's expense, 30c.

**Leader Adjustable Leg Bands.** Has a very neat, compact and smooth fastening. Easily attached, absolutely secure and has no catching points. Made from heavy aluminum and is strong and substantial and will hold its shape. Made in two sizes; No. 1 for Bantams or Mediterraneans, No. 2 for Americans to Asiatics and turkeys. Not made in pigeon sizes. Numbered only 1-12, 1-25, 1-50, 1-100. Always give sizes and state how bands are to be numbered. Prices: Doz., 17c; 25 for 30c; 50 for 55c; 100 for 90c; 250 for \$2.15; 500 for \$4.05; 1,000 for \$7.85, postpaid.

**Wire Nests.** These nests are strongly made from heavy Japanned steel wire and will last a lifetime. They are far superior to boxes, will not harbor lice and are always clean. Each, 15c; doz., \$1.50.

### Conkey's Poultry Remedies.

We offer a specific remedy for each disease. The importance of prevention by the use of a germicide, like Nox-i-cide, should not be underestimated. This line is complete and very reliable.

**Conkey's Roup Remedy.** For fowls that sneeze, gasp and wheeze, also have a watery discharge from the nostrils and eyes. Follow directions on box to effect a cure. Powder or Pills. Three sizes, 30c, 60c and \$1.20, postpaid.

**Conkey's Cholera Remedy.** Placed in drinking water. Directions on every box. Two sizes, 30c and 60c, postpaid.

**Conkey's Lice Powder.** Will successfully kill body lice on fowls. 5 oz. package, 15c, (postpaid, 20c); 15 oz. pkg., 30c, (postpaid, 45c); 3 lb. pkg., 60c.

**Conkey's Lice Liquid.** Will kill mites and act as a disinfectant. Applied to walls, roosts and crevices with a brush or sprayer. Qt., 50c;  $\frac{1}{2}$  gal., 75c; gal., \$1.25.

**Conkey's Poultry Conditioner.** For fowls run down, off feed, recovering from disease or during moulting season. Price, 35c, (postpaid, 40c).

**Conkey's Poultry Laxative.** Price, 30c, postpaid.

**Conkey's Poultry Tonic.** Not a food, but a medicinal preparation to increase egg production. Keeps hens in the best laying condition. 1 $\frac{1}{2}$  lb. package, 30c; 3 $\frac{1}{2}$  lb. pkg., 60c; 12 lb. pail, \$1.40; 25 lb. pail, \$2.75.

**Conkey's Noxicide.** A wonderful disinfectant and germicide. Fine for many purposes—cleaning incubators and brooders, washing founts and troughs and spraying wherever lice, mites or germs are present. Pint 40c, qt., 70c;  $\frac{1}{2}$  gal., 1.00; gal., \$1.75.

**Conkey's Bronchitis Remedy.** Price, 60c, postpaid.

**Conkey's Chicken Pox Remedy.** Price, 60c, (postpaid, 65c).

**Conkey's Limber Neck Remedy.** Price, 60c, (postpaid, 65c).

**Conkey's Rheumatic Remedy.** Price, 60c, (postpaid, 65c).

**Conkey's Black Head Remedy.** Price, 60c, postpaid.

**Conkey's Poultry Worm Remedy.** Price, 30c and 60c, postpaid.

**Conkey's White Diarrhoea Remedy.** Price, 30c and 60c, postpaid.

**Conkey's Fly Knocker.** Qt., 60c;  $\frac{1}{2}$  gal., 90c; gallon, \$1.50.

**Conkey's Scaly Leg Remedy.** Price, 30c, postpaid.

**Conkey's Gape Remedy.** Price, 60c, (postpaid, 70c.)

**Conkey's Healing Salve.** Price, 30c, postpaid.

**Conkey's Head Lice Ointment.** Price, 1 oz., 15c; 3 oz., 30c; postpaid.

**Conkey's Canker Special.** Price, 60c, postpaid.

**Duplex Poultry Marker.** Punch is reversible and cuts two sizes as shown, giving practically two tools for the price of one. Handle nicely nickel-plated and polished, and the marker complete weighs  $\frac{1}{2}$  ounce. Price, 25c each, postpaid.

### Philadelphia Poultry Marker.

It is very important to keep a careful record of the different hatches of chicks and no better way has been devised than by the use of this little machine. Over 200 different marks can be made by punching between different toes. It is made in two sizes, one for chicks and one for adult fowls. The sizes are shown by the black dots at the side of the illustration. Price, each, postpaid, 25c. State which size is wanted.

**Poultry Punch.** Made on the plan of a ticket punch. It makes a sharp, clean cut, thus avoiding injuring or tearing the web. It is so constructed that it cannot pinch or bind. Very strong and durable. Each, 50c, postpaid.



Philadelphia Poultry Marker

**Excelsior Drinking Fountain.** It is highly important that poultry be given plenty of pure drinking water and that it be kept in clean containers. Those fowls having disease will contaminate the rest of the flock, unless the water is kept sanitary. The Excelsior Fountain is made of heavy galvanized iron, easily cleaned and filled. Made in four sizes. Price, quart, 20c;  $\frac{1}{2}$  gallon, 35c; gallon, 50c; 2 gallons, 75c.

### Combination Food and Water Fountain.

Most popular and best fountain ever invented for little chicks. Keeps water clean, sweet and cool, chicks can not get wet or chilled in it—better than a dozen roup cures on this account.

Makes an A1 brooder fountain, and on account of being hung up it is impossible for chicks to tip it over and spill contents. Feeds either water or grain, grit, oyster shells etc., and with the glass receptacle you can always see at a glance the amount of food or water left in the fountain. They are easily cleaned and filled and any ordinary bottle or fruit jar can be used with them. No bottles or cans are included with fountains. Price, only 25c each. Mailing weight, 1 lb.

**Excelsior Dry Feed Hopper.** Dry feeding has become very popular. It has proved to be a satisfactory, economical and labor saving method of feeding poultry. Hopper is well made of heavy galvanized iron, has a hinged lid and being made of metal affords freedom from dampness and mold. For dry feeding both hard grain mixtures and dry mash, this hopper is superior. Has two compartments, one for dry mash or mixed grain holding about 6 qts., the other for grain or beef scraps, holding about 3 quarts. Top of box has a sharp pitch or angle, so birds cannot roost on it and the front of box is straight up and down so the dry mash does not clog. Price, each, 75c.

**Excelsior Grit and Shell Box.** No poultryman can without this handy labor saving device. This box or hopper is well made of heavy galvanized iron. It has three compartments, and may be used for feeding grit, oyster shell and charcoal; or grit, shell and granulated bone. It feeds automatically and prevents waste. With this self-feeding box hung up on the side walls of the pen, the birds can help themselves at all times and the supply is kept clean. Price, each, 50c.

**Opal Nest Egg.** Clear white, flint nest eggs, will last a lifetime. Each, 3c; doz., 30c, postpaid.

**Lime Nest Egg.** Made of lime and covered with paraffine. Weigh and look like hen's eggs. Practically unbreakable and do not get as cold in Winter as other nest eggs. Each, 3c; doz., 30c. If sent by mail, add 2c each for postage.



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Northrup, King & Co., Seedsmen, Minneapolis, Minn.



## Headquarters For

# POULTRY FEEDS

Northrup, King & Co.'s Sterling Poultry Feeds are economical to use because they contain only good, clean materials mixed in the proper proportions to make balanced rations for your birds at every age.



### Market Conditions Changing.

Everywhere throughout the great Northwest poultry keepers are beginning to realize that market conditions are changing, that the call for poultry and eggs is constantly increasing, but that a higher quality than before is being demanded.

The up-to-date storekeeper candles all eggs before buying them; no longer can he afford to take chances with eggs of doubtful age.

Every town of any size now has its produce company where you can dispose of your birds to be fattened for market.

### Modern Methods Essential.

You can profit by these changes and make more money on your flock if you will use modern methods of handling it. This includes careful selection of breeding stock, proper housing and wise feeding. We hear much nowadays about balanced rations, which is merely another name for common-sense feeding, based upon the principle of giving the birds what they need to keep them nourished and to make them lay eggs.

## You Can Rely Upon These Feeds.

See Pages 110-111 for Complete Descriptions.

### Sterling Baby Chick Starter.

A wholesome, ready-prepared starting food which will nourish the chicks so they can make rapid growth. Contains the necessary material to form bone and feathers. To be fed the first three weeks.

### Sterling Chick Feed.

This mixture is a splendid combination of seeds, cracked grains, ground bone and fine meat scraps. It gives the chicks quick growth and tends to keep them in good health. For chicks three weeks old and over.

### Peep o' Day Chick Meal.

Reg. U. S. Pat. Off.

The ideal food for baby chicks. Should be fed the first three weeks in combination with Sterling Baby Chick Starter. Feeding directions on each package. Put up in a handy 3-lb. carton and also sold in bulk.

### Sterling Hen Feed.

A splendid, well balanced feed, composed of a variety of bright, plump grains, oil meal, etc. It supplies the variety which hens need to make them thrive. Manufactured both with and without grit.

### Sterling Scratch Feed.

This is a trifle lower in protein than the Sterling Hen Feed but contains more kinds of grain. It will help your flock "shell out" the eggs. Two mixtures, both with or without grit.

### Sterling Poultry Mash.

A high protein mash, containing meat meal, ground bone, middlings, alfalfa meal, oil meal and pure ground grains. It is unexcelled for baby chicks or laying hens. Especially recommended for moulting birds and winter layers.

### Start Baby Chicks Right.

For baby chicks especially it is important to feed them so they will get a good start and develop rapidly. Also getting eggs in winter is largely a question of proper feeding. Sterling Poultry Feeds are scientifically prepared to meet every need.

### Demand For Sterling Poultry Feeds Increasing.

Many years ago we started making Sterling Poultry Feeds, on a small scale at first, but rapidly increasing, until our plant could hardly supply the demand. Now we are in our immense new plant with the most up-to-date equipment and an output of many hundred carloads annually.

### Our Favorable Location.

Minneapolis is an ideal center for handling Poultry Feeds. Being the great grain market it offers us splendid facilities for procuring the raw materials at the lowest cost, and its many railroads afford quick, economical shipping of the prepared feeds.

We are always at your service to help you solve your Poultry Feeding problems. Examine these feeds at your dealer's or if he is not yet handling them, write us for samples and prices.

## You Can Rely Upon These Feeds.

### Sterling Pigeon Feed.

This is composed of field peas, cracked corn, wheat, millet, etc. It is rich in protein and will quickly develop growing squabs. Splendid for homers.

### All Grain Chick Feed.

Contains only pure grains, sound and sweet, blended in the proper proportions. For chicks three weeks old and over.

### All Grain Hen Feed.

This will be found valuable to use in combination with table scraps, fresh ground bone or some other feed rich in protein.

### Star Scratch Feed.

A low priced scratch feed containing a variety of grains, corn, kaffir corn, barley, speltz, etc. Made both with and without grit.

### Sterling Egg Starter.

A fine tonic and conditioner for moulting hens, birds just through moulting or any which need a stimulant to start them laying.

### Sterling Granulated Bone.

Made from fresh, green bones from which the moisture and grease have been extracted. Very rich in lime and protein.

### Sterling Meat Scraps.

These show 50 per cent protein; may be fed either separately or mixed with grains. They are a forcing feed and should be used sparingly.

### Sterling Crushed Oyster Shell.

Almost pure carbonate of lime, the material composing egg shells. Sterling Crushed Oyster Shell should be kept constantly before the flock.

# THREE RELIABLE BRANDS

FOR FULL DESCRIPTION AND INFORMATION  
REGARDING THE THREE RELIABLE BRANDS  
SEE PAGE 96.



## STERLING BRAND

FOR THOSE WHO WANT THE BEST UNEXCELLED FOR PURITY  
GERMINATION, PLUMPNESS AND COLOR. SOLD ONLY IN SEALED BAGS.

LOOK FOR THE STERLING  
TRADE MARK.



## NORTHLAND BRAND

THE GREATEST VALUE FOR A REASONABLE PRICE  
OF UNIFORMLY SUPERIOR QUALITY AND CAREFULLY  
SELECTED FOR HIGH PURITY AND STRONG GERMINATION.  
THE NORTHLAND GOOSE IS ON EVERY BAG.



## VIKING BRAND

LOWEST IN PRICE CONSISTENT WITH DEPENDABLE  
QUALITY. STRICTLY RECLEANED AND TESTED FOR  
PURITY AND GERMINATION.  
EVERY BAG BRANDED WITH THE VIKING SHIP.

**NORTHRUP, KING & CO., SEEDSMEN**  
**MINNEAPOLIS, MINNESOTA**